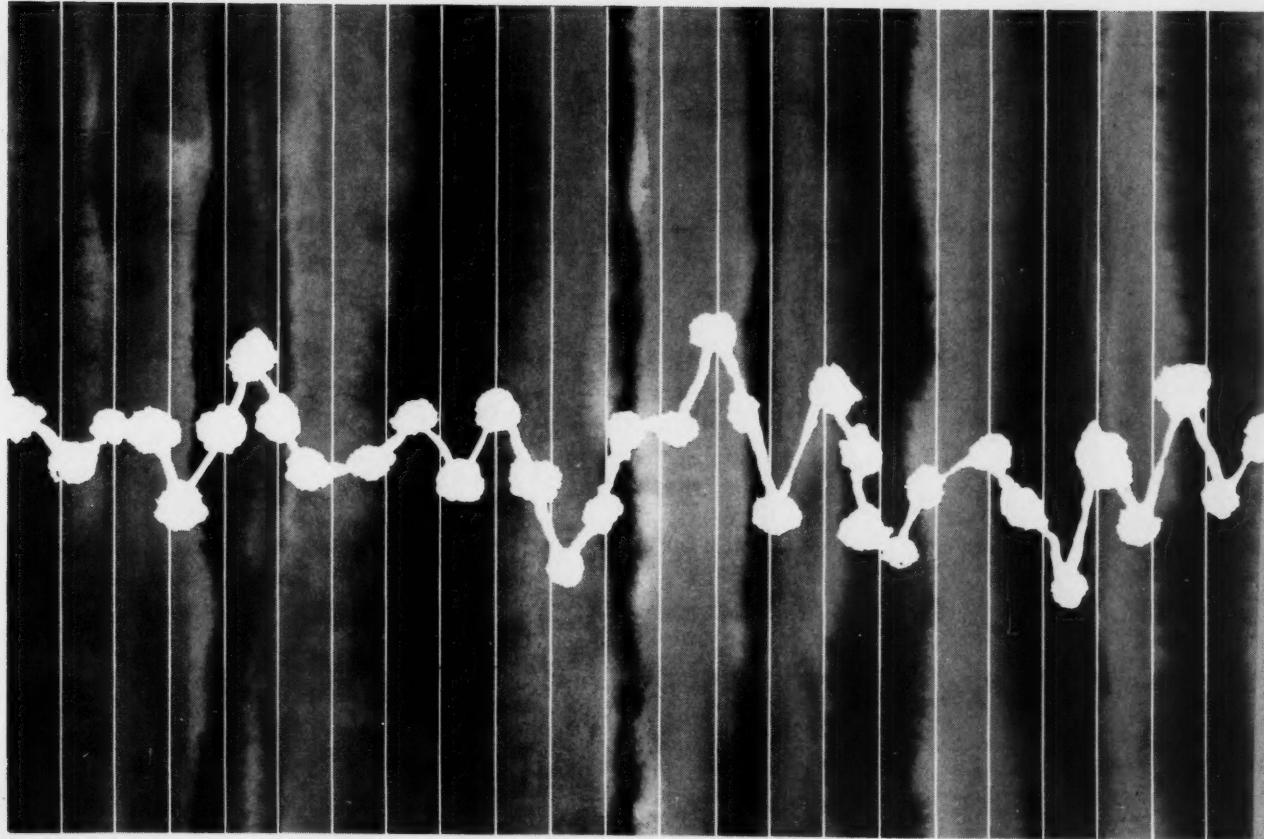


defense indicators

AUGUST 1974



U.S. DEPARTMENT OF COMMERCE • Social and Economic Statistics Administration • BUREAU OF ECONOMIC ANALYSIS



U. S. DEPARTMENT OF COMMERCE

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This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

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defense indicators

August 1974

Series ES4 No. 74-8

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6 SESA PROJECTS

for economic analysis

BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

LONG TERM ECONOMIC GROWTH A report for the study of economic trends over a long span of years, 1860-1970.

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by SESA in its analysis of time series are available on a single computer tape.

SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X-11 variant is used for adjusting monthly data and the X-11Q for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the *Survey of Current Business*.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense-Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)
Federal Government purchases of goods and services, national defense (BEA)
National defense purchases as a percent of gross national product (BEA)
Gross national product, changes from previous quarter (BEA)
National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)
Defense Department gross obligations incurred, procurement (DOD)
Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accessions, defense products industries (BLS)

Layoffs, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Manufacturers' inventories (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census)

Defense Department progress payments outstanding (DOD)

Employment in defense products industries, total (BLS)

Employment in defense products industries, production workers (BLS)

Index of aggregate weekly man-hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department manpower, military (DOD)

Defense Department manpower, civilian (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury)

Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census):

Ratio, manufacturers' unfilled orders to shipments (Census):

Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census):

Defense products industries

Defense products

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures—imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly *Status of Funds* report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The *Status of Funds* report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's *Contract Awards* report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The *Contract Awards* report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the *Status of Funds* report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372
Guided missiles and space vehicles, completely assembled ..	1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments classified into the following industry categories in accordance with the *Standard Industrial Classification Manual*, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366
Aircraft and parts	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*.

¹An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).²

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

New Features and Changes for This Issue

Appendix C contains historical data for series 648, 657, 659, 661, 677, 678, 685, 688, 691, and 693.

The September issue of DEFENSE INDICATORS is scheduled for release on September 27.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

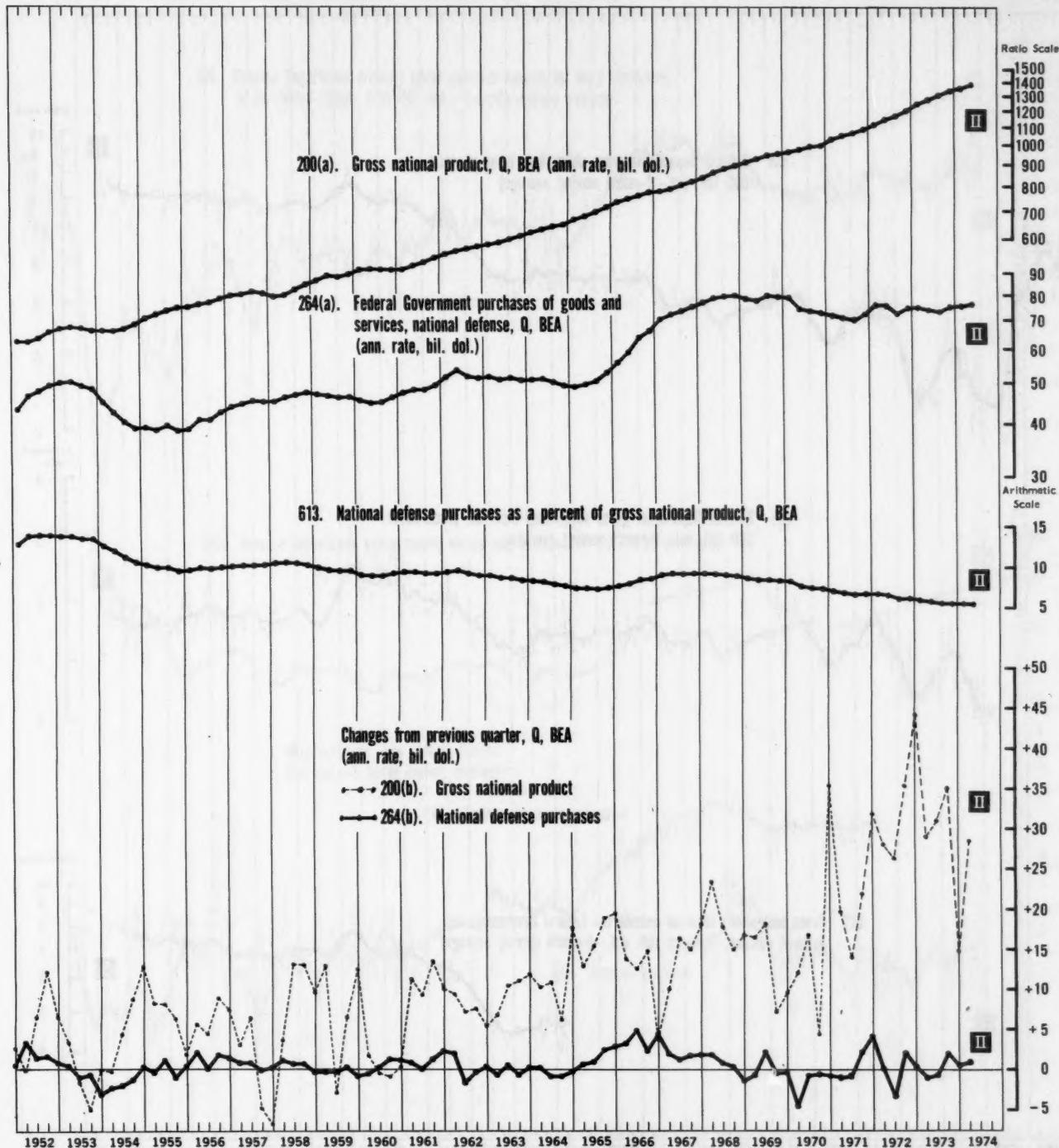
Series title	Unit of measure	Basic data							Percent change				Series number	
		Average		4th Q 1973	1st Q 1974	2d Q 1974	May 1974	June 1974	July 1974	May '74 to June '74	June '74 to July '74	4th Q '73 to 1st Q '74	1st Q '74 to 2d Q '74	
		1972	1973											
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
200. Gross national product (BEA)	Ann. rate, bil. dol.	1158.0	1294.9	1344.0	1358.8	1387.3	...	...	...	...	...	1.1	2.1	200
264. Federal Government purchases of goods and services, national defense (BEA) .....	... do ...	74.8	74.4	75.3	75.8	76.6	...	...	...	...	...	0.7	1.1	264
613. National defense purchases as a percent of GNP (BEA) ¹	Percent	6.4	5.8	5.6	5.6	5.5	...	...	...	...	...	0.0	-0.1	613
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
Defense Dept. gross obligations incurred (DOD):														
617. Total	Ann. rate, bil. dol.	84.7	85.5	85.7	90.3	91.5	83.4	97.6	NA	17.0	NA	5.4	1.3	617
621. Procurement .....	... do ...	20.3	18.8	18.8	21.7	19.0	16.0	16.5	NA	3.1	NA	15.4	-12.4	621
623. Gross obligations incurred outside the Federal Government for national defense (Treasury) .....	... do ...	88.6	89.1	91.0	95.8	NA	91.8	NA	NA	NA	NA	5.3	NA	623
625. Defense Department military prime contract awards for work performed in the U.S. (DOD) .....	... do ...	36.0	35.3	38.2	36.8	42.7	34.6	41.3	NA	19.4	NA	-3.7	16.0	625
643. Defense Department gross unpaid obligations outstanding (DOD)	Bil. dol., end of period	34.2	36.8	36.8	37.4	38.1	38.1	38.1	NA	0.0	NA	1.6	1.9	643
648. Mfrs.' new orders, defense products (Census)	Ann. rate, bil. dol.	19.5	20.5	21.6	22.8	21.4	24.9	21.0	16.0	-15.7	-23.8	5.6	-6.1	648
650. Manufacturers' new orders from the U.S. Government, aerospace industries (Census) .....	... do ...	14.8	15.9	16.8	19.4	NA	...	...	...	...	...	15.5	NA	650
853. Average weekly overtime hours, production workers, defense products industries (BLS) ¹	Hours	2.8	3.1	3.2	2.9	2.9	3.1	3.0	NA	-0.1	NA	-0.3	0.0	653
654. Accessions, defense products industries (BLS) ¹	Number per 100 employees	2.1	2.2	2.2	2.0	2.2	2.2	2.1	NA	-0.1	NA	-0.2	0.2	654
655. Layoffs, defense products industries (BLS) ¹ .....	... do ...	0.8	0.6	0.6	0.4	0.7	0.7	0.7	NA	0.0	NA	-0.2	0.3	655
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
657. Output of defense and space equipment (FRB)	1967=100	77.9	80.4	80.9	81.1	81.0	81.6	80.7	81.2	-1.1	0.6	0.2	-0.1	657
659. Mfrs.' inventories, defense products (Census)	Bil. dol., end of period	5.1	5.6	5.6	6.0	6.2	6.1	6.2	NA	1.6	NA	7.1	3.3	659
661. Mfrs.' unfilled orders, defense products (Census) .....	... do ...	19.1	20.7	20.7	21.7	22.3	22.1	22.3	22.1	0.9	-0.9	4.8	2.8	661
664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census) .....	... do ...	15.1	16.4	16.4	17.5	NA	...	...	...	...	...	6.7	NA	664
666. Defense Department progress payments outstanding (DOD)@ .....	... do ...	6.7	7.4	7.4	7.8	NA	...	...	...	...	...	5.4	NA	666
Employment in defense products industries (BLS):														
670. Total	Thousands	1,119	1,144	1,150	1,145	1,146	1,146	1,146	1,137	0.0	-0.8	-0.4	0.1	670
671. Production workers .....	... do ...	581	606	608	606	606	606	605	596	-0.2	-1.5	-0.3	0.0	671
673. Index of aggregate weekly man-hours, defense products industries (BLS)	1967=100	NA	NA	NA	NA	NA	NA	67.4	NA	NA	NA	NA	NA	673
675. Index of aggregate weekly payrolls, production workers, defense products industries (BLS) .....	... do ...	NA	NA	NA	NA	NA	NA	95.1	NA	NA	NA	NA	NA	675
Defense Department manpower (DOD):@														
677. Military	Thousands, end of period	2,348	2,202	2,202	2,187	2,162	2,156	2,162	NA	0.3	NA	-0.7	-1.1	677
678. Civilian .....	... do ...	1,082	1,026	1,026	1,042	1,070	1,053	1,070	NA	1.6	NA	2.7	2.7	678
Defense Department net outlays (DOD):														
680. Total, military functions and military assistance	Ann. rate, bil. dol.	75.6	76.3	77.4	79.2	80.5	80.9	82.9	83.1	2.5	0.2	2.3	1.6	680
682. Procurement .....	... do ...	17.1	15.7	16.1	15.1	15.0	14.7	14.1	9.7	-4.1	-31.2	-6.2	-0.7	682
683. Budget outlays for the national defense function (Treasury) .....	... do ...	77.7	78.0	78.8	80.1	79.7	82.6	78.6	NA	-4.8	NA	1.6	-0.5	683
685. Defense Dept. personnel compensation (DOD) .....	... do ...	32.0	32.4	32.8	32.6	32.8	32.7	32.6	NA	-0.3	NA	-0.6	0.6	685
688. Mfrs.' shipments, defense products (Census) .....	... do ...	17.9	18.8	18.7	19.1	19.1	19.1	19.2	17.7	0.5	-7.8	2.1	0.0	688
689. Manufacturers' shipments to the U.S. Government, aerospace industries (Census) .....	... do ...	13.6	14.4	14.4	15.0	NA	...	...	...	...	...	4.2	NA	689
691. Ratio, manufacturers' unfilled orders to shipments, defense products (Census)	Ratio	12.5	12.7	13.2	13.6	13.8	13.9	13.9	15.0	0.0	7.9	3.0	1.5	691
693. Ratio, manufacturers' inventories to shipments, defense products (Census) .....	... do ...	3.2	3.5	3.6	3.7	3.8	3.8	3.9	NA	2.6	NA	2.8	2.7	693
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales contracts—exports (BEA) ¹	Ann. rate, mil. dol.	1,154	2,354	4,184	2,688	NA	...	...	...	...	-1,496	NA	546	
547. Direct defense expenditures—imports (BEA) ¹@ .....	... do ...	4,759	4,555	4,416	4,552	NA	...	...	...	...	136	NA	547	
696. U.S. Government cash receipts associated with military sales contracts (BEA) ¹ .....	... do ...	1,387	2,290	2,144	2,080	NA	...	...	...	...	-64	NA	696	

NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies; otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by @, which appear to contain no seasonal movement.

NA = not available.

¹Differences rather than percent changes are shown for this series.

Gross National Product and National Defense Purchases



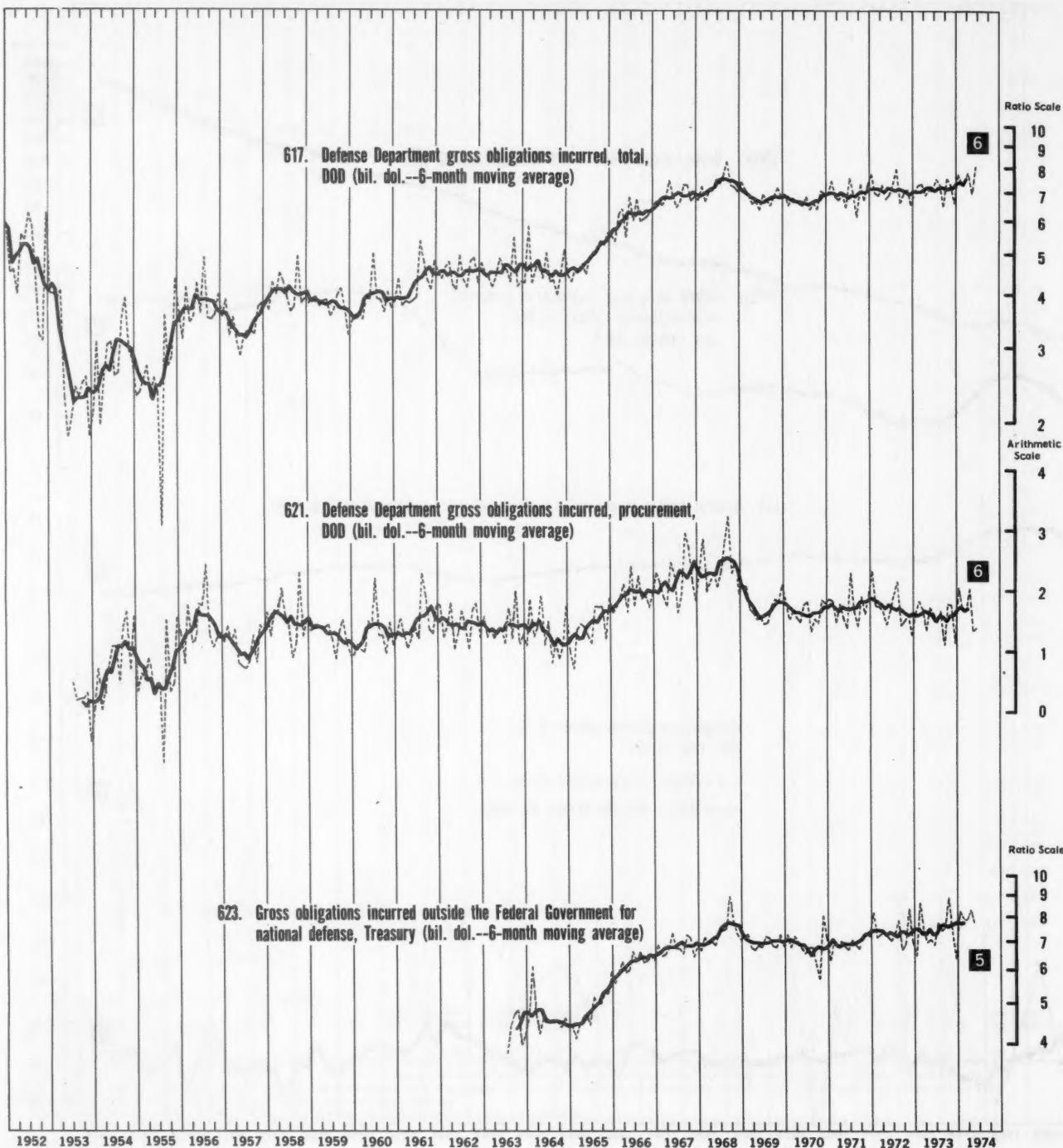
Current data for these series are shown on page 14.

defense indicators

CHART

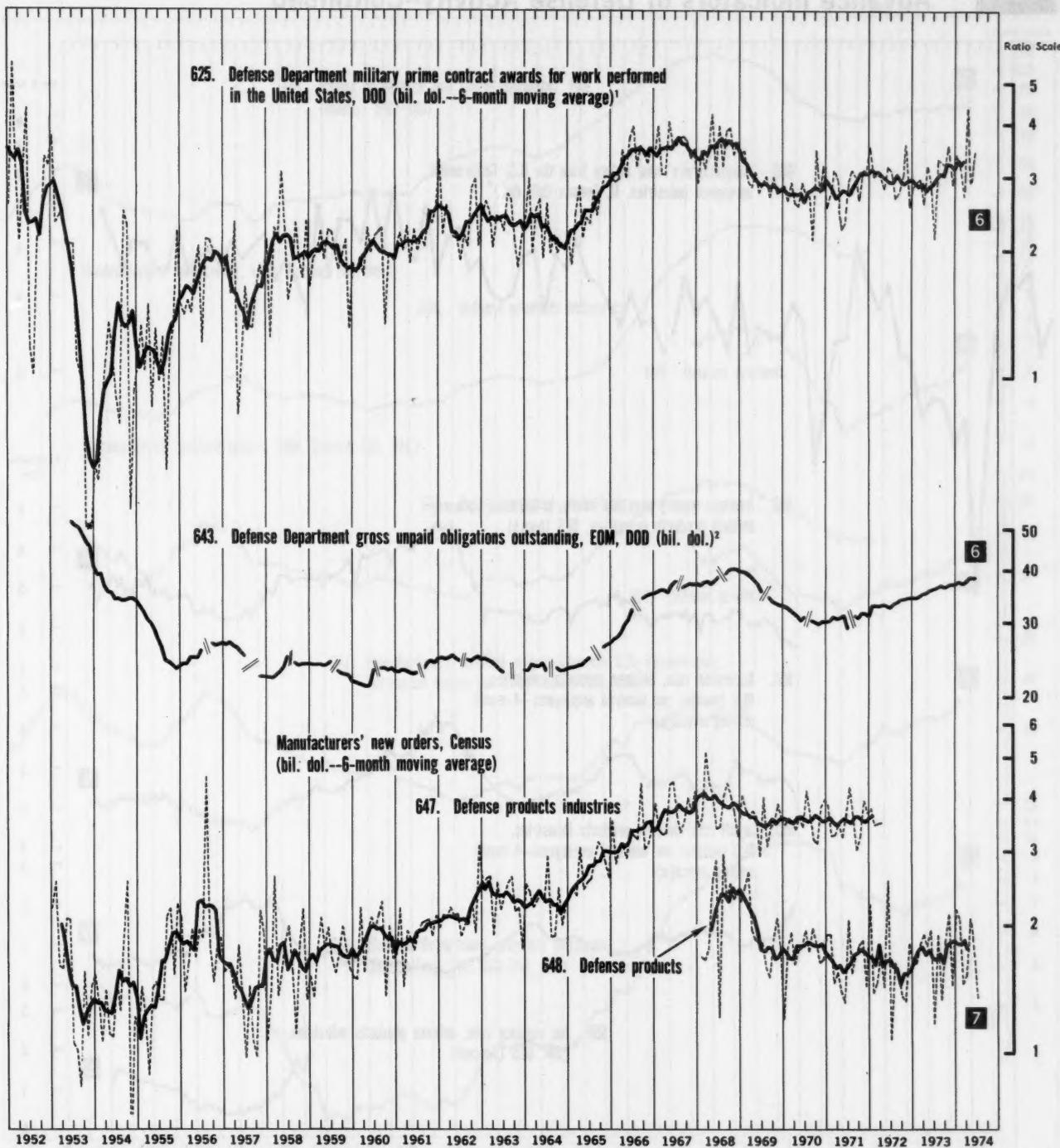
2

Advance Indicators of Defense Activity



Current data for these series are shown on pages 15 and 16.

Advance Indicators of Defense Activity--Continued

¹Data prior to July 1955 exclude orders written to other Government agencies.²Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963.

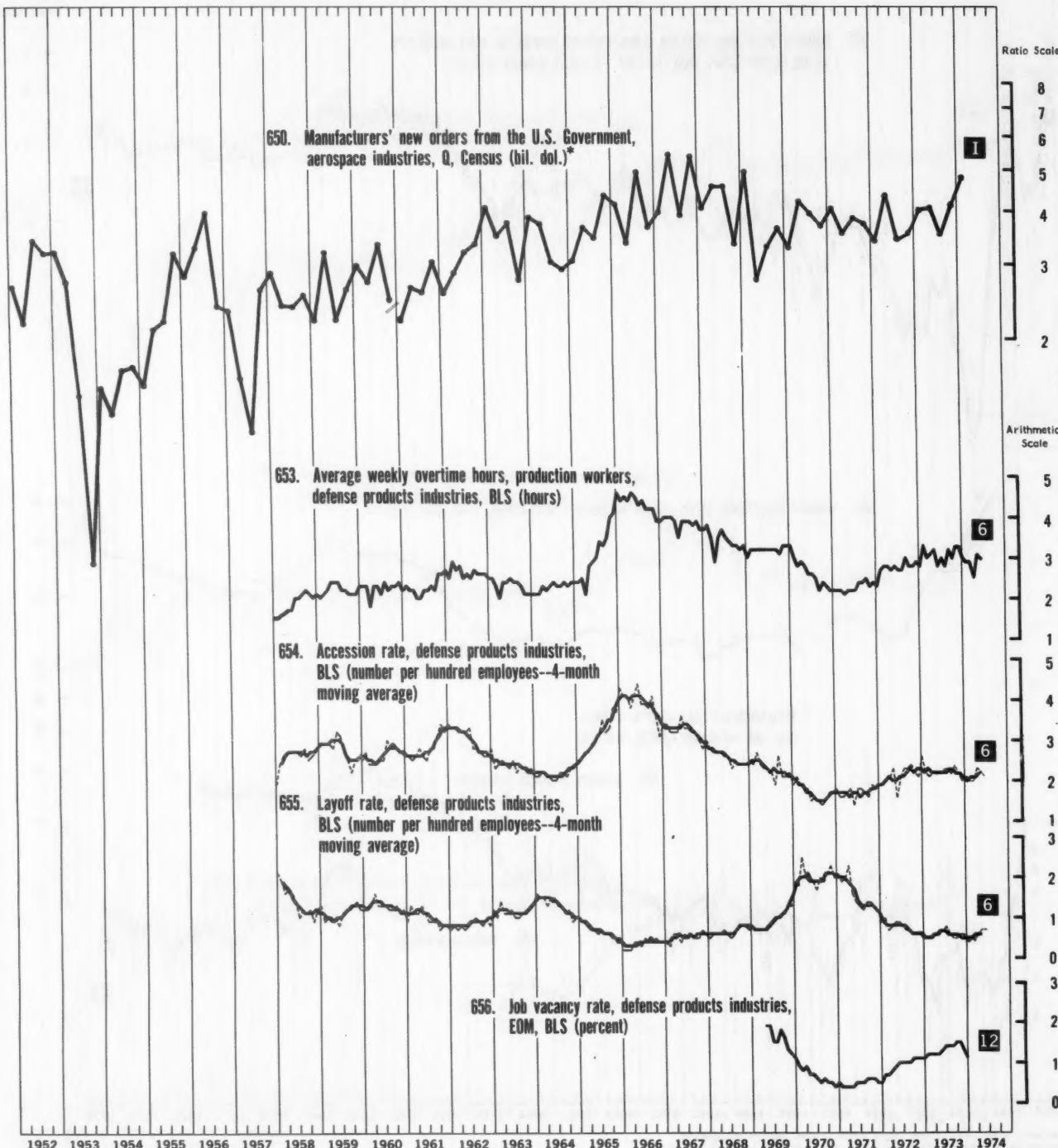
*Contract awards for November 1953—\$265 million; December 1953—\$390 million. Current data for these series are shown on pages 16 and 20.

defense indicators

CHART

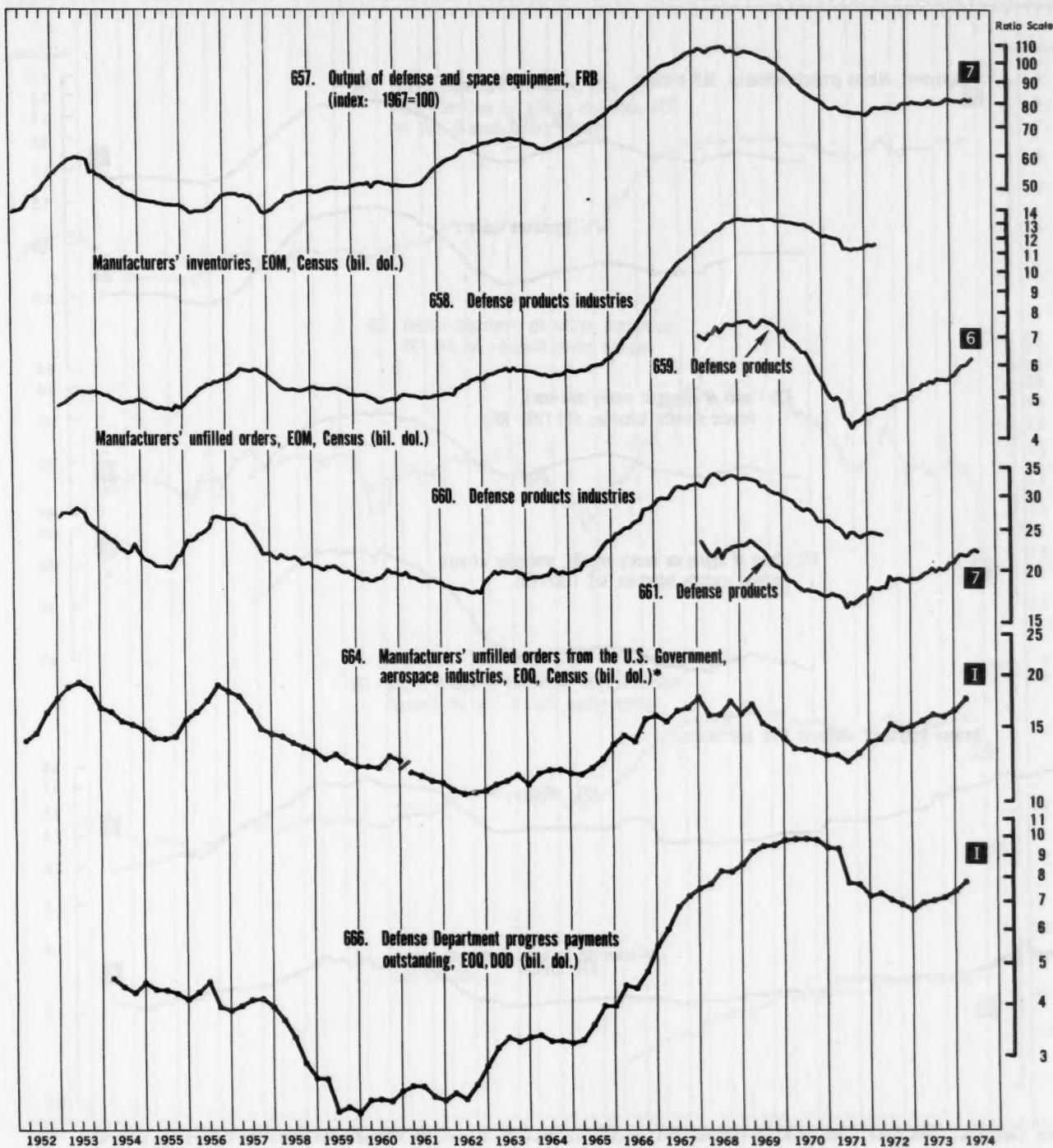
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Advance Indicators of Defense Activity--Continued



*Data prior to 1961 include orders from non-Government customers.
Current data for these series are shown on pages 20 and 21.

Intermediate and Final Indicators of Defense Activity



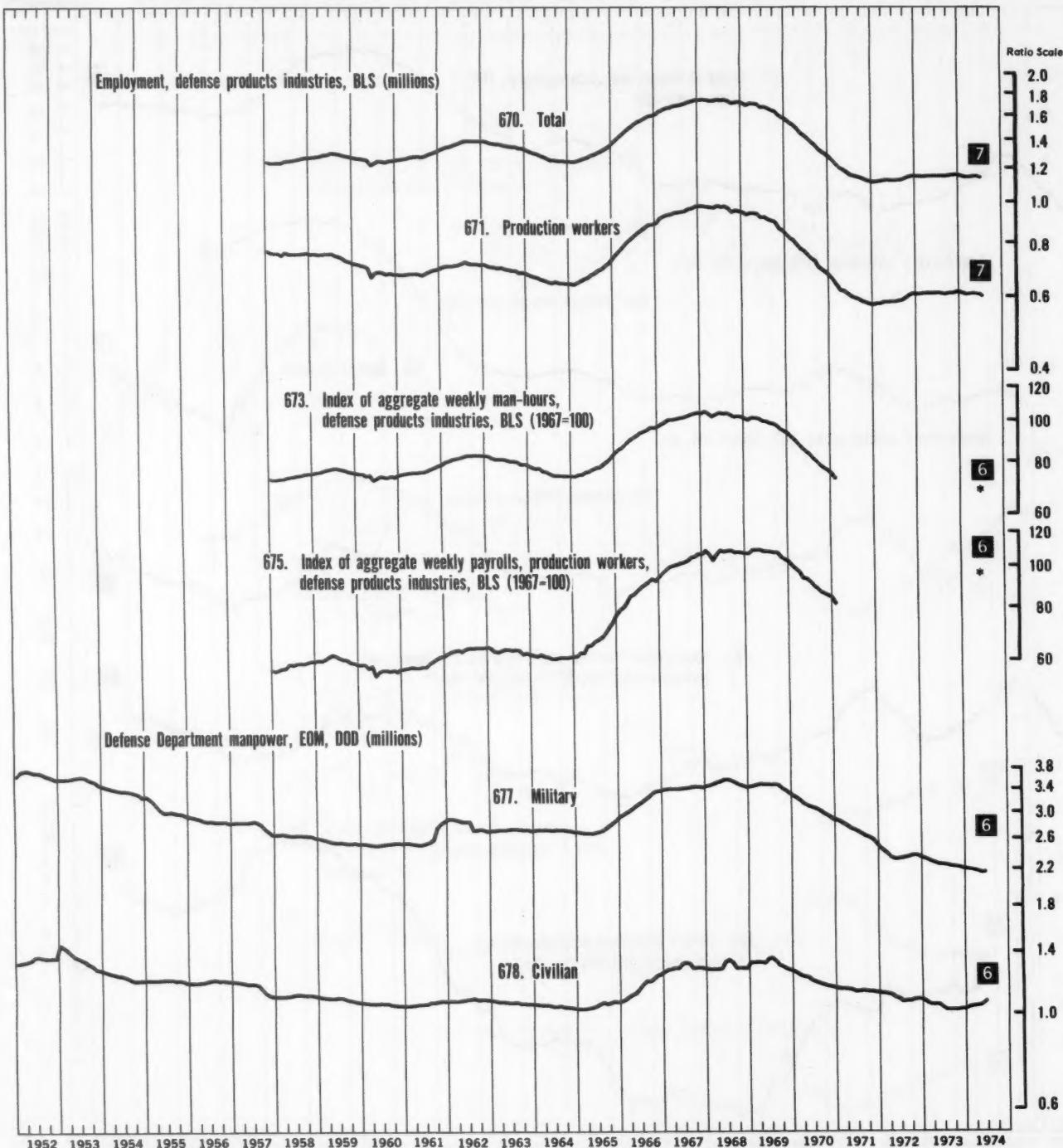
*Data prior to 1961 include orders from non-Government customers.
Current data for these series are shown on page 22.

defense indicators

CHART

3

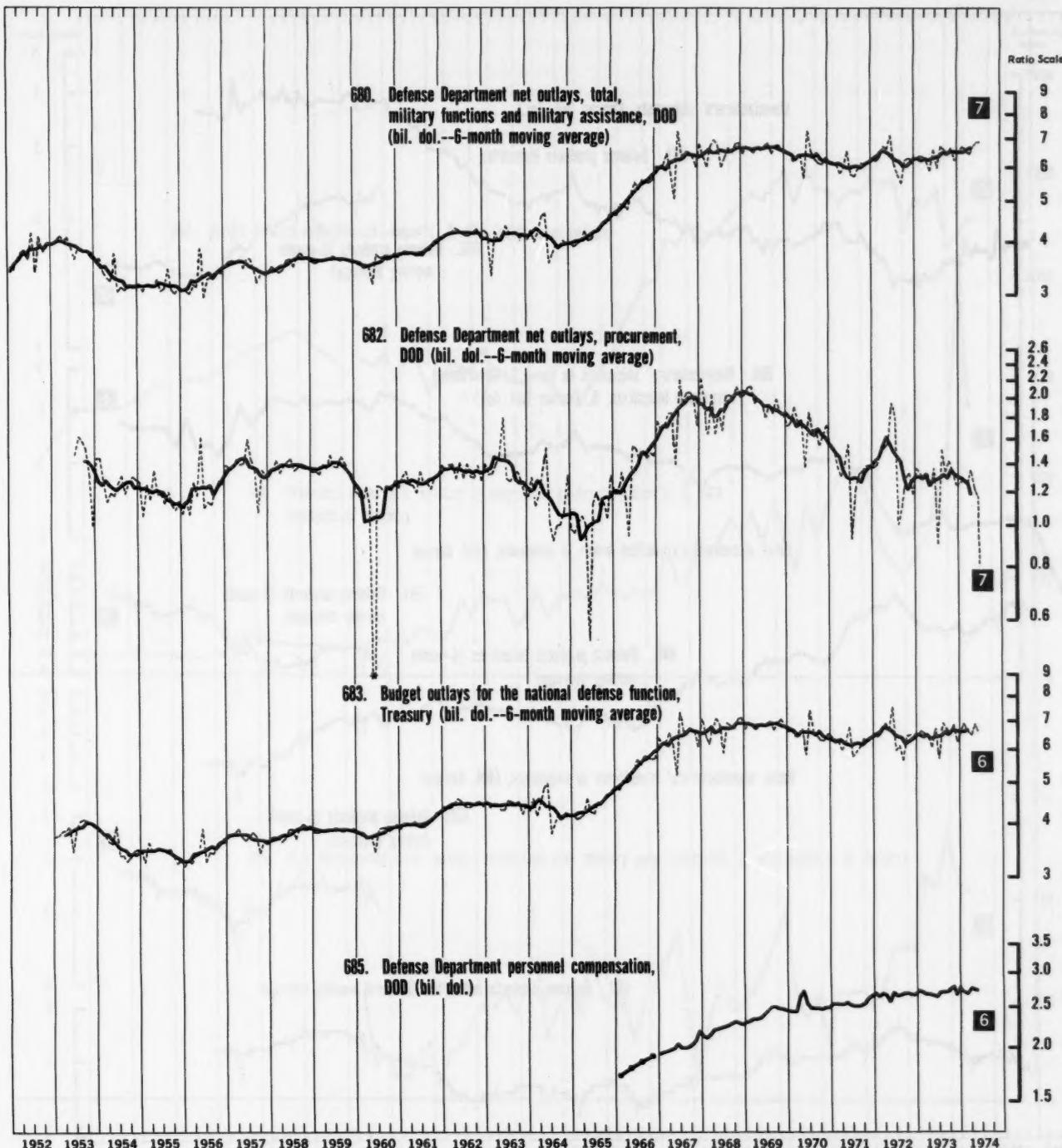
Intermediate and Final Indicators of Defense Activity--Continued



Current data for these series are shown on pages 22, 23, and 24.

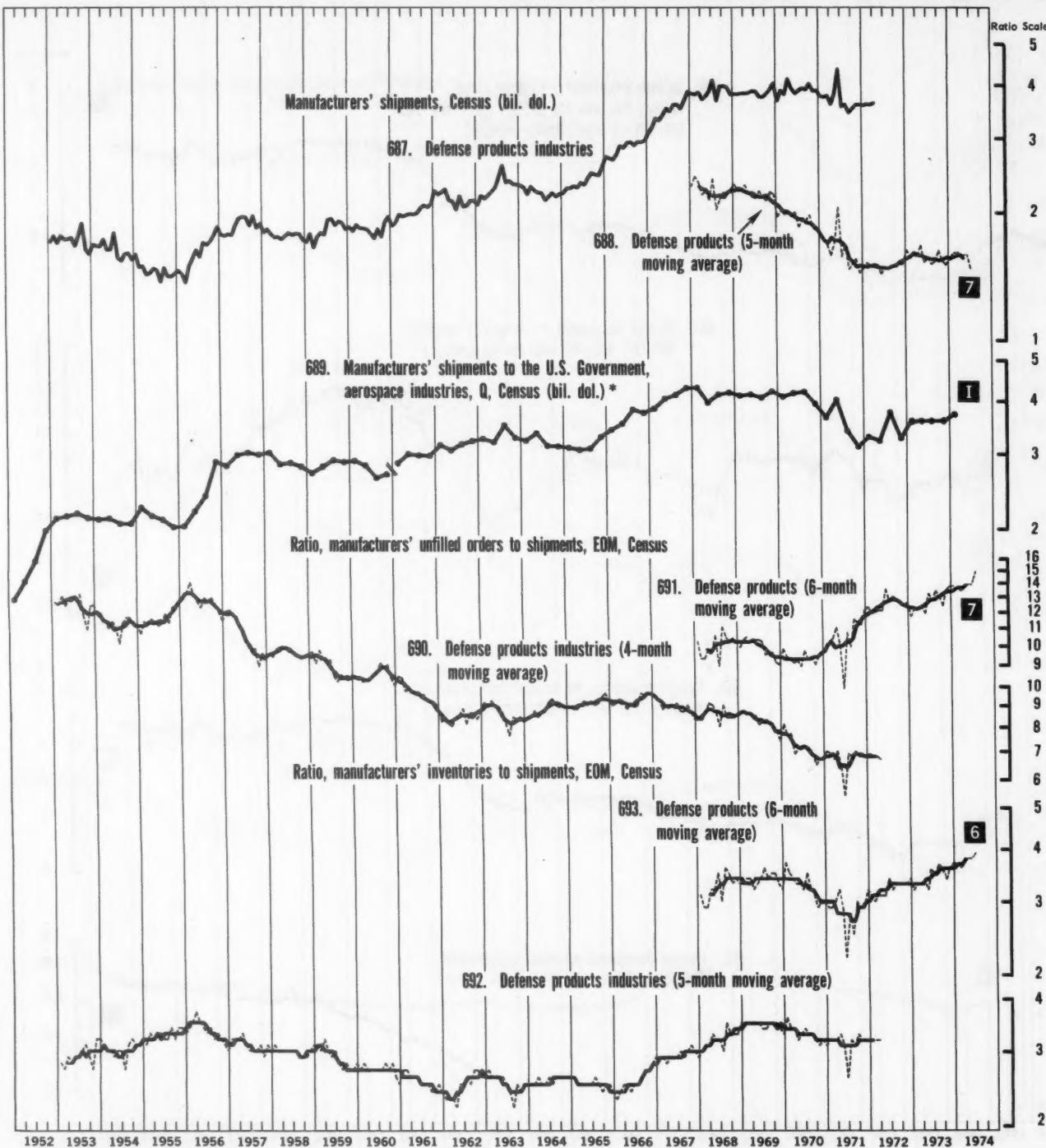
* Data for the period March 1971 through May 1974 are not available (see page 23).

Intermediate and Final Indicators of Defense Activity--Continued



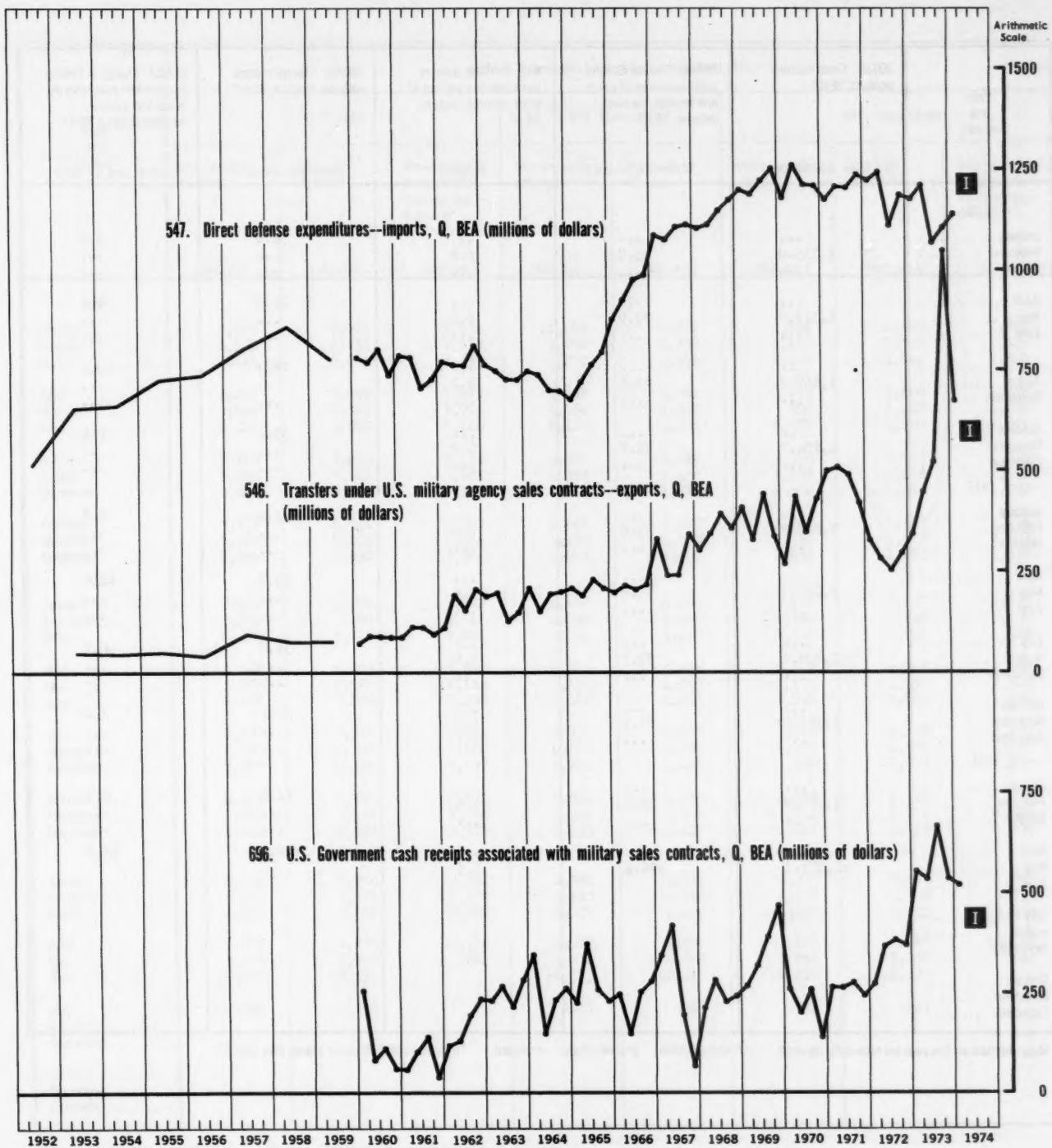
*Net expenditures for procurement, June 1960—\$245 million.
Current data for these series are shown on pages 24 and 25.

CHART

3**Intermediate and Final Indicators of Defense Activity--Continued**

*Data prior to 1961 include shipments to non-Government customers.
Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components



Current data for these series are shown on page 27.

defense indicators

TABLE

1

Gross National Product and National Defense Purchases

Year and month	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1972					
January .....	...	...	...	31.8	3.8
February	1,115.0	75.9	6.8	...	...
March .....	...	...	...	...	...
April .....	...	...	...	28.0	0.0
May	1,143.0	75.9	6.6	...	...
June .....	...	...	...	...	...
July .....	...	...	...	26.3	-3.3
August	1,169.3	72.6	6.2	...	...
September .....	...	...	...	...	...
October .....	...	...	...	35.4	2.1
November	1,204.7	74.7	6.2	...	...
December .....	...	...	...	...	...
1973					
January .....	...	...	...	44.2	0.3
February	1,248.9	75.0	6.0	...	...
March .....	...	...	...	...	...
April .....	...	...	...	29.0	-1.0
May	1,277.9	74.0	5.8	...	...
June .....	...	...	...	...	...
July .....	...	...	...	31.0	-0.7
August	1,308.9	73.3	5.6	...	...
September .....	...	...	...	...	...
October .....	...	...	...	35.1	2.0
November	1,344.0	75.3	5.6	...	...
December .....	...	...	...	...	...
1974					
January .....	...	...	...	14.8	0.5
February	1,358.8	75.8	5.6	...	...
March .....	...	...	...	...	...
April .....	...	...	...	r28.5	r0.8
May	r1,387.3	r76.6	5.5		
June					
July					
August					
September					
October					
November					
December					

Note: All data on this page are seasonally adjusted.

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 5.)

Advance Indicators of Defense Activity

Year and month	Defense Department gross obligations incurred, DOD							
	617. Total			619. Operations		621. Procurement		
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972								
January	7,772	7,721	7,134	4,623	4,572	2,534	2,329	1,887
February	6,542	6,956	7,133	3,990	4,338	1,667	1,755	1,845
March	6,445	6,854	7,139	4,170	4,375	1,470	1,744	1,816
April	6,455	7,290	7,073	4,437	4,361	1,278	1,660	1,768
May	5,813	6,729	7,005	4,084	4,323	993	1,448	1,704
June	9,429	6,889	7,166	5,110	4,396	2,975	1,670	1,771
July	7,769	7,310	7,123	4,933	4,410	1,310	1,949	1,719
August	7,810	7,921	7,065	4,559	4,456	1,767	2,158	1,694
September	6,899	6,599	7,127	4,345	4,516	1,582	1,432	1,722
October	7,178	6,941	7,067	4,647	4,419	1,757	1,507	1,656
November	6,489	7,102	7,014	4,193	4,488	1,556	1,617	1,603
December	6,066	6,530	6,904	4,027	4,456	1,456	1,274	1,550
1973								
January	7,414	6,990	7,023	4,688	4,494	1,815	1,631	1,595
February	6,691	7,260	7,011	4,097	4,656	1,785	1,838	1,569
March	6,716	7,313	7,009	4,174	4,427	1,435	1,704	1,588
April	6,342	6,873	7,096	4,522	4,445	1,028	1,349	1,648
May	5,997	7,086	7,183	4,195	4,393	1,171	1,730	1,623
June	9,327	7,054	7,190	5,122	4,471	2,871	1,633	1,596
July	8,180	7,510	7,052	5,334	4,679	1,019	1,483	1,495
August	7,505	7,304	7,162	4,634	4,552	1,393	1,676	1,568
September	6,289	6,486	7,197	4,201	4,429	1,168	1,099	1,575
October	8,074	7,533	7,120	5,024	4,716	2,105	1,788	1,494
November	6,917	7,293	7,160	4,346	4,652	1,714	1,771	1,593
December	6,041	6,597	7,172	4,133	4,643	1,321	1,149	1,599
1974								
January	8,113	7,750	7,334	4,991	4,714	2,337	2,077	1,689
February	6,826	7,375	7,377	4,187	4,758	1,677	1,708	1,731
March	6,613	7,458	7,320	4,377	4,699	1,381	1,642	1,658
April	7,375	7,787	p7,576 (NA)	4,982	4,804	1,546	2,040	p1,696 (NA)
May	6,104	6,952	p8,131	4,434	4,662	894	1,330	p1,379
June	p9,977			p6,113	p5,415	p2,407		
July	(NA)	(NA)		(NA)	(NA)	(NA)	(NA)	
August								
September								
October								
November								
December								

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 6.)

defense indicators

TABLE

2

Advance Indicators of Defense Activity--Continued

Year and month	623. Gross obligations incurred outside the Federal Government for national defense, Treasury		Defense Department military prime contract awards for work performed in the United States, DOD							
			625. Total			626. Aircraft		627. Missile and space systems		
	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972										
January	8,256	7,399	3,210	3,520	3,048	634	...	359	...	
February	7,168	7,444	2,499	2,982	3,112	469	1,981	410	1,395	
March	7,294	7,421	2,871	3,025	3,061	726	...	473	...	
April	7,401	7,392	2,167	2,985	3,075	471	...	257	...	
May	7,196	7,239	2,204	2,786	3,001	367	2,129	209	1,255	
June	7,037	7,355	5,574	3,154	2,944	1,586	...	481	...	
July	7,335	7,257	3,415	3,074	2,894	955	...	681	...	
August	7,867	7,177	2,593	2,638	2,887	529	1,940	326	1,154	
September	6,707	7,381	2,815	2,725	3,021	523	...	481	...	
October	6,923	7,371	3,008	2,946	2,917	395	...	516	...	
November	8,416	7,231	2,997	3,589	2,876	427	1,584	491	1,283	
December	6,977	7,371	2,611	2,532	2,919	612	...	359	...	
1973										
January	6,496	7,490	2,578	2,824	2,956	728	...	377	...	
February	8,706	7,501	2,418	2,899	2,893	328	1,942	297	1,306	
March	7,421	7,281	2,841	2,947	2,824	721	...	504	...	
April	6,986	p7,264	1,854	2,568	2,884	122	...	233	...	
May	7,098	p7,477	2,489	3,171	2,765	866	1,948	129	967	
June	p6,877	p7,266	5,122	2,897	2,828	1,243	...	349	...	
July	7,773	p7,294	2,357	2,106	2,873	396	...	207	...	
August	7,441	p7,619	3,224	3,276	2,975	611	1,804	921	1,200	
September	7,588	p7,672	3,309	3,222	3,032	867	...	435	...	
October	8,935	7,592	3,198	3,176	3,024	939	...	368	...	
November	7,417	r7,674	2,967	3,515	3,236	686	2,150	283	1,138	
December	6,396	r7,746	2,944	2,850	3,214	316	...	563	...	
1974										
January	r8,264	r7,784	3,084	3,378	3,123	1,093	...	206	...	
February	7,874	r7,673	2,613	3,141	3,317	598	2,424	305	844	
March	7,819	7,712	2,602	2,677	3,212	517	...	255	...	
April	8,270	(NA)	3,127	4,343	3,310	459	...	303	...	
May	7,647	(NA)	2,250	2,881	(NA)	308	1,104	297	1,271	
June			6,086	3,440		502		323		
July			(NA)	(NA)		(NA)		(NA)		
August										
September										
October										
November										
December										

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 6 and 7.)

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD—Continued						
	628. Ships, not seasonally adjusted	629. Weapons and ammunition		630. Electronic and communications equipment		631. Combat vehicles	
		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
January	851	257	...	307	...	13	...
February	132	250	779	324	1,083	7	51
March	165	225	...	347	...	13	...
April	59	235	...	248	...	37	...
May	89	225	734	272	959	17	109
June	194	448	...	731	...	72	...
July	160	41	...	234	...	6	...
August	370	82	562	215	931	18	131
September	311	166	...	298	...	140	...
October	276	292	...	302	...	15	...
November	266	269	614	401	937	40	98
December	148	236	...	228	...	33	...
1973							
January	84	207	...	214	...	14	...
February	378	226	658	215	939	11	60
March	85	195	...	420	...	11	...
April	82	150	...	237	...	12	...
May	78	184	725	351	959	15	65
June	139	566	...	654	...	54	...
July	337	21	...	131	...	50	...
August	220	81	436	354	990	24	80
September	203	114	...	313	...	27	...
October	161	105	...	248	...	116	...
November	465	106	310	392	900	21	214
December	588	192	...	261	...	56	...
1974							
January	52	135	...	311	...	102	...
February	212	244	541	415	1,013	5	253
March	103	142	...	206	...	40	...
April	190	170	...	403	...	129	...
May	155	123	680	270	1,110	98	502
June	1,175	554		732		404	
July	(NA)	(NA)		(NA)		(NA)	
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised.

defense indicators

TABLE

2

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD—Continued							
	632. Other hard goods		633. Soft goods		634. Construction		635. Services	
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972								
January	92	...	115	...	74	...	135	...
February	135	401	121	516	177	434	148	697
March	135	...	125	...	144	...	143	...
April	132	...	120	...	147	...	118	...
May	169	506	155	551	174	440	163	737
June	399	...	141	...	470	...	440	...
July	62	...	545	...	138	...	347	...
August	106	418	179	557	103	465	325	622
September	111	...	127	...	64	...	167	...
October	107	...	111	...	77	...	571	...
November	111	318	85	539	88	368	132	799
December	115	...	358	...	69	...	155	...
1973								
January	140	...	141	...	103	...	154	...
February	141	458	112	519	205	484	140	755
March	130	...	102	...	131	...	152	...
April	145	...	113	...	153	...	195	...
May	128	480	97	488	151	442	137	776
June	393	...	158	...	493	...	446	...
July	65	...	489	...	34	...	341	...
August	117	432	177	553	111	377	265	653
September	106	...	186	...	101	...	252	...
October	133	...	154	...	147	...	388	...
November	142	365	235	600	54	450	161	663
December	108	...	228	...	86	...	178	...
1974								
January	128	...	297	...	90	...	204	...
February	111	467	145	1,374	52	258	138	900
March	179	...	487	...	92	...	181	...
April	294	...	344	...	248	...	166	...
May	139	564	214	1,081	58	504	168	846
June	352	...	256	...	604	...	524	...
July	(NA)	...	(NA)	...	(NA)	...	(NA)	...
August								
September								
October								
November								
December								

NA=not available; p=preliminary; r=revised.

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD--Continued					640. Defense Department military prime contract awards for work outside the United States, DOD	
	636. Contracts under \$10,000		637. Educational and nonprofit institutions		638. Civilian Health and Medical Program of the Uniformed Services (CHAMPUS), not seasonally adjusted		
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
January	327	...	46	...	...	169	...
February	289	942	37	155	...	130	492
March	317	...	58	...	...	106	...
April	300	...	43	...	...	82	...
May	318	901	46	187	...	95	536
June	516	...	96	...	...	290	...
July	159	...	87	...	...	368	...
August	279	954	61	220	...	278	545
September	348	...	79	...	...	195	...
October	277	...	69	...	0	142	...
November	313	911	114	192	260	104	455
December	255	...	43	...	0	99	...
1973							
January	341	...	41	...	34	156	...
February	320	1,003	45	152	0	151	527
March	334	...	43	...	13	125	...
April	356	...	46	...	10	213	...
May	319	977	35	168	-1	83	645
June	551	...	76	...	0	264	...
July	225	...	61	...	0	368	...
August	210	997	123	259	10	244	497
September	390	...	86	...	229	159	...
October	319	...	85	...	35	194	...
November	335	1,059	87	169	0	240	833
December	326	...	29	...	13	186	...
1974							
January	327	...	76	...	63	160	...
February	333	996	55	224	0	114	594
March	329	...	58	...	13	198	...
April	384	...	37	...	0	80	...
May	382	1,066	38	156	0	94	559
June	570	...	70	...	20	333	...
July	(NA)		(NA)		(NA)	(NA)	
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised.

defense indicators

TABLE
2

Advance Indicators of Defense Activity--Continued

Year and month	Defense Department gross unpaid obligations outstanding, DOD						648. Manufacturers' new orders, defense products, Census	650. Manufac- turers' new orders from the U.S. Govern- ment, aerospace industries, Census, seasonally adjusted*		
	643. Total		644. Operations		645. Procurement					
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)		
1972										
January	33,734	32,879	5,303	4,998	21,702	21,131	2,241	1,692		
February	33,554	32,832	5,021	5,011	21,877	21,364	1,384	1,680		
March	32,480	32,742	4,635	4,864	21,637	21,680	1,460	1,612		
April	32,152	32,976	4,439	4,727	21,360	21,774	1,724	1,803		
May	30,675	32,772	3,891	4,323	20,672	21,578	1,430	1,608		
June	31,347	32,417	4,211	4,700	20,982	20,692	2,577	1,650		
July	32,546	33,109	4,739	4,881	20,570	20,820	1,074	1,663		
August	33,684	33,350	5,043	4,807	20,813	21,347	1,635	1,602		
September	34,563	33,985	5,349	5,104	21,237	21,280	1,540	1,583		
October	35,251	34,026	5,845	5,196	21,645	21,537	1,356	1,455		
November	35,009	34,255	5,671	5,270	21,836	21,663	1,319	1,546		
December	34,601	34,225	5,438	5,384	22,023	21,634	1,806	1,545		
1973										
January	35,171	34,280	5,741	5,381	22,326	21,718	1,618	1,589		
February	35,287	34,426	5,589	5,523	22,721	21,953	1,633	1,680		
March	34,766	34,976	5,273	5,586	22,469	22,291	1,804	1,758		
April	34,297	35,140	5,424	5,807	22,044	22,244	1,900	1,783		
May	33,409	35,693	5,227	5,886	21,753	22,565	1,789	1,709		
June	34,621	35,877	5,301	6,044	22,806	22,558	1,956	1,754		
July	e35,500	e36,188	e6,200	e6,385	e22,100	e22,620	1,175	1,676		
August	37,069	36,666	6,754	6,420	22,432	22,960	1,898	1,664		
September	36,829	36,285	6,719	6,454	22,195	22,556	1,338	1,720		
October	38,039	36,682	7,519	6,660	22,679	22,656	1,827	1,635		
November	37,680	36,869	7,193	6,673	22,877	22,763	2,124	1,803		
December	37,244	36,839	7,064	6,994	22,932	22,615	1,450	1,831		
1974										
January	38,249	37,280	7,425	6,959	23,791	23,143	2,183	1,852		
February	37,963	37,001	7,055	6,964	24,032	23,175	2,064	1,802		
March	37,249	37,436	6,779	7,189	23,847	23,634	1,462	1,794		
April	37,264	38,141	7,044	7,550	23,778	23,970	1,527	rl,844		
May	35,601	38,076	6,476	7,301	23,123	23,987	2,079	pl,702		
June	p36,725	p38,096	p6,877	p7,850	p23,786	p23,550	rl,752	(NA)		
July	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	pl,330			
August										
September										
October										
November										
December										

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 7 and 8.)

Advance Indicators of Defense Activity--Continued

Year and month	653. Average weekly overtime hours, production workers, defense products industries, BLS		654. Accession rate, defense products industries, BLS			655. Layoff rate, defense products industries, BLS			656. Job vacancy rate, defense products industries, BLS, not seasonally adjusted*
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	
	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Percent)
1972									
January	2.4	2.3	1.8	1.9	1.9	1.2	0.9	1.1	0.7
February	2.5	2.7	1.7	1.9	1.9	1.2	1.0	0.9	0.7
March	2.7	2.8	1.9	2.0	2.0	1.0	0.7	0.8	0.8
April	2.5	2.8	1.9	2.1	2.1	0.9	0.8	0.8	0.9
May	2.4	2.7	2.2	2.3	2.0	0.7	0.9	0.8	1.0
June	2.8	2.8	2.5	1.6	2.0	0.6	0.9	0.8	1.0
July	2.4	2.7	2.2	2.1	2.1	0.6	0.8	0.8	1.0
August	2.7	2.7	2.6	2.3	2.1	0.6	0.7	0.8	1.0
September	3.2	3.0	2.5	2.3	2.2	0.6	0.7	0.7	1.1
October	3.0	2.8	2.4	2.4	2.3	0.6	0.6	0.6	1.1
November	3.1	2.8	1.9	2.2	2.2	0.6	0.6	0.6	1.1
December	3.4	2.9	1.5	2.1	2.3	0.5	0.6	0.6	1.1
1973									
January	2.9	2.8	2.5	2.6	2.3	0.8	0.5	0.6	1.2
February	3.1	3.3	2.0	2.2	2.2	0.7	0.5	0.5	1.2
March	2.9	3.0	2.0	2.1	2.3	0.7	0.5	0.5	1.2
April	2.8	3.1	2.0	2.2	2.2	0.6	0.6	0.6	1.2
May	2.9	3.2	2.2	2.2	2.2	0.5	0.7	0.6	1.3
June	2.8	2.8	2.9	2.2	2.2	0.5	0.7	0.7	1.4
July	2.7	3.0	2.5	2.3	2.2	0.6	0.8	0.7	1.4
August	2.8	2.8	2.6	2.3	2.2	0.5	0.6	0.6	1.4
September	3.4	3.2	2.4	2.2	2.3	0.4	0.5	0.6	1.5
October	3.2	3.0	2.5	2.4	2.3	0.6	0.5	0.6	1.5
November	3.6	3.3	2.0	2.2	2.2	0.7	0.6	0.6	1.3
December	3.7	3.3	1.3	2.0	2.2	0.5	0.6	0.5	1.1
1974									
January	2.9	3.0	2.1	2.1	2.1	0.7	0.4	0.5	(NA)
February	2.8	2.9	1.8	2.0	2.0	0.7	0.5	0.5	
March	2.9	2.9	1.9	2.0	2.1	0.6	0.4	0.5	
April	2.2	2.5	2.1	2.3	2.1	0.6	0.6	0.6	
May	2.8	3.1	2.2	2.2	2.2	0.5	0.7	0.6	
June	p3.0	p3.0	2.8	2.1	(NA)	0.5	0.7	(NA)	
July	(NA)	(NA)	(NA)	(NA)		(NA)	(NA)		
August									
September									
October									
November									
December									

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 8.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity

Year and month	657. Output of defense and space equipment, FRB, seasonally adjusted*	659. Manufacturers' inventories, defense products, Census, seasonally adjusted*	661. Manufacturers' unfilled orders, defense products, Census, seasonally adjusted*	664. Manufacturers' unfilled orders from the U.S. Gov- ernment, aerospace industries, Census, seasonally adjusted*	666. Defense Department progress payments out- standing, DOD, not seasonally adjusted*	670. Employment in defense products industries, total, BLS	
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1972							
January	74.8	4,594	18,206	...	...	1,108	1,105
February	76.0	4,627	18,071	...	...	1,109	1,108
March	77.6	4,706	18,034	14,052	7,297	1,108	1,109
April	78.1	4,720	18,249	...	...	1,109	1,116
May	77.7	4,711	18,176	...	...	1,109	1,117
June	78.1	4,802	19,322	15,233	7,043	1,113	1,116
July	78.3	4,831	18,907	...	...	1,113	1,115
August	78.1	4,911	19,076	...	...	1,114	1,117
September	77.6	4,937	19,119	14,819	6,866	1,125	1,119
October	77.9	4,978	18,966	...	...	1,131	1,128
November	79.6	4,988	18,773	...	...	1,142	1,137
December	80.1	5,087	19,070	15,106	6,668	1,146	1,143
1973							
January	79.8	5,210	19,060	...	...	1,145	1,141
February	80.6	5,248	19,123	...	...	1,143	1,142
March	80.1	5,266	19,343	r15,533	6,942	1,139	1,140
April	80.0	5,384	19,659	...	...	1,137	1,144
May	79.7	5,384	19,780	...	...	1,135	1,143
June	80.1	5,477	20,211	r16,084	7,026	1,142	1,145
July	81.1	5,434	19,824	...	...	1,141	1,144
August	79.7	5,555	20,210	...	...	1,142	1,146
September	79.8	5,528	20,013	r15,956	7,139	1,148	1,143
October	80.0	5,531	20,215	...	...	1,150	1,147
November	80.9	5,508	20,797	...	...	1,154	1,150
December	81.9	5,615	20,740	r16,448	7,385	1,155	1,152
1974							
January	81.4	5,679	21,372	...	...	1,150	1,147
February	80.9	5,837	21,827	...	...	1,144	1,143
March	81.0	5,966	21,678	p17,459	7,781	1,142	1,144
April	80.6	5,978	21,622	...	...	1,141	1,147
May	r81.6	6,119	22,107	...	...	1,138	1,146
June	r80.7	6,201	r22,261	(NA)	(NA)	r1,143	r1,146
July	p81.2	(NA)	p22,123			p1,134	p1,137
October							
November							
December							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 9 and 10.)

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	671. Employment in defense products industries, production workers, BLS		673. Index of aggregate weekly man-hours, defense products industries, BLS		675. Index of aggregate weekly payrolls, production workers, defense products industries, BLS	
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
1972						
January	570	567	(1)	(1)	(1)	(1)
February	573	572	(1)	(1)	(1)	(1)
March	571	572	(1)	(1)	(1)	(1)
April	572	577	(1)	(1)	(1)	(1)
May	571	577	(1)	(1)	(1)	(1)
June	575	578	(1)	(1)	(1)	(1)
July	575	578	(1)	(1)	(1)	(1)
August	578	581	(1)	(1)	(1)	(1)
September	587	582	(1)	(1)	(1)	(1)
October	592	589	(1)	(1)	(1)	(1)
November	604	599	(1)	(1)	(1)	(1)
December	608	604	(1)	(1)	(1)	(1)
1973						
January	606	602	(1)	(1)	(1)	(1)
February	606	604	(1)	(1)	(1)	(1)
March	603	605	(1)	(1)	(1)	(1)
April	601	606	(1)	(1)	(1)	(1)
May	599	605	(1)	(1)	(1)	(1)
June	603	606	(1)	(1)	(1)	(1)
July	603	607	(1)	(1)	(1)	(1)
August	601	604	(1)	(1)	(1)	(1)
September	608	603	(1)	(1)	(1)	(1)
October	610	607	(1)	(1)	(1)	(1)
November	611	606	(1)	(1)	(1)	(1)
December	615	611	(1)	(1)	(1)	(1)
1974						
January	611	608	(1)	(1)	(1)	(1)
February	606	604	(1)	(1)	(1)	(1)
March	603	605	(1)	(1)	(1)	(1)
April	602	607	(1)	(1)	(1)	(1)
May	599	r606	(1)	(1)	(1)	(1)
June	600	r605	r67.2	r67.4	r94.0	r95.1
July	p590	p596	(NA)	(NA)	(NA)	(NA)
August						
September						
October						
November						
December						

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 10.)

¹Data for the ordnance and accessories component of this series (SIC Code 19) are being revised by the source agency for the period March 1971 through May 1974 to correct processing errors. The corrected data for this period are expected to be available in December when the source agency introduces routine benchmark revisions. This series will be recalculated to include all revisions and corrections at that time. In the interim, data will not be shown for the aforementioned period.

defense indicators

TABLE
3

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department manpower, DOD		Defense Department net outlays, DOD				
	677. Military, not seasonally adjusted*	678. Civilian, not seasonally adjusted*	680. Total, military functions and military assistance			681. Operations	
			Not seasonally adjusted	Seasonally adjusted**	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
January	2,462	1,119	5,973	6,280	6,209	3,971	4,144
February	2,426	1,117	6,128	6,205	6,306	4,013	4,069
March	2,385	1,112	6,944	6,341	6,398	4,307	4,112
April	2,341	1,107	6,539	6,722	6,550	4,294	4,248
May	2,319	1,090	6,911	6,623	6,521	4,535	4,459
June	2,323	1,083	8,769	7,130	6,448	4,271	3,615
July	2,332	1,068	4,987	6,107	6,308	3,972	4,436
August	2,344	1,073	5,679	5,766	6,228	3,928	3,937
September	2,356	1,071	5,212	5,502	6,174	3,805	3,975
October	2,371	1,081	6,107	6,237	6,024	3,925	4,079
November	2,370	1,083	6,313	6,303	6,049	4,084	4,074
December	2,348	1,082	6,063	6,232	6,151	4,012	4,093
1973							
January	2,334	1,073	6,388	6,256	6,295	4,119	4,107
February	2,314	1,057	6,054	6,377	6,288	3,988	4,162
March	2,291	1,051	6,736	6,366	6,220	4,217	4,167
April	2,274	1,051	6,222	6,194	6,281	4,087	3,970
May	2,256	1,051	6,213	5,896	6,235	4,033	3,946
June	2,253	1,031	7,854	6,597	6,291	4,537	3,935
July	2,251	1,019	5,005	5,978	6,330	3,669	4,018
August	2,237	1,022	6,649	6,716	6,371	4,279	4,228
September	2,232	1,019	5,967	6,598	6,503	4,027	4,316
October	2,227	1,022	6,527	6,444	6,441	4,105	4,156
November	2,218	1,026	6,766	6,683	6,534	4,359	4,378
December	2,202	1,026	5,953	6,228	6,535	4,066	4,226
1974							
January	2,199	1,034	6,728	6,538	6,524	4,376	4,333
February	2,195	1,039	6,384	6,717	6,527	4,137	4,313
March	2,187	1,042	6,702	6,536	6,537	4,398	4,364
April	2,174	1,046	6,685	6,458	p6,651	4,367	4,221
May	2,156	1,053	7,204	6,745	p6,715	4,718	4,536
June	2,162	1,070	p7,891	p6,910		p4,809	p4,273
July	(NA)	(NA)	p5,980	p6,922		p4,626	p4,915
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See pages 10 and 11.)

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department net outlays, DOD—Continued			683. Budget outlays for the national defense function, Treasury		685. Defense Department personnel compensation, DOD	
	682. Procurement			Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted*
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972							
January	1,276	1,372	1,393	6,449	6,425	2,713	2,687
February	1,367	1,391	1,424	6,442	6,517	2,681	2,642
March	1,666	1,476	1,453	6,582	6,585	2,778	2,686
April	1,456	1,528	1,547	6,912	6,774	2,625	2,660
May	1,621	1,564	1,620	6,684	6,695	2,638	2,571
June	2,390	1,952	1,555	7,574	6,644	2,711	2,700
July	1,675	1,810	1,494	5,976	6,492	2,651	2,654
August	975	1,002	1,456	6,136	6,418	2,693	2,669
September	1,072	1,111	1,417	5,667	6,387	2,610	2,690
October	1,306	1,299	1,290	6,472	6,179	2,636	2,687
November	1,254	1,331	1,216	6,499	6,263	2,658	2,666
December	1,084	1,189	1,271	6,320	6,347	2,609	2,670
1973							
January	1,355	1,367	1,301	6,483	6,493	2,811	2,723
February	1,243	1,329	1,306	6,641	6,482	2,666	2,709
March	1,439	1,291	1,291	6,541	6,415	2,728	2,677
April	1,287	1,330	1,322	6,409	6,489	2,675	2,675
May	1,315	1,243	1,245	6,099	6,353	2,736	2,658
June	1,649	1,371	1,276	6,761	6,404	2,615	2,639
July	863	907	1,285	5,671	6,434	2,712	2,701
August	1,450	1,513	1,300	6,945	6,455	2,735	2,713
September	1,239	1,344	1,318	6,718	6,585	2,615	2,712
October	1,487	1,425	1,298	6,536	6,504	2,732	2,757
November	1,268	1,349	1,357	6,877	6,650	2,765	2,793
December	1,124	1,250	1,318	6,276	6,643	2,589	2,642
1974							
January	1,270	1,262	1,300	6,550	6,621	2,879	2,784
February	1,195	1,276	1,289	6,899	6,612	2,651	2,691
March	1,313	1,241	1,268	6,588	6,613	2,700	2,669
April	1,382	1,355	pl,256	6,484	6,659	2,750	2,745
May	1,292	1,227	pl,180	6,881	(NA)	p2,817	p2,729
June	pl,357	pl,174		6,554		p2,686	p2,719
July	p801	p810		(NA)		(NA)	(NA)
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 11.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity-Continued

Year and month	688. Manufacturers' shipments, defense products, Census		689. Manufacturers' shipments to the U.S. Government, aerospace industries, Census, seasonally adjusted*	691. Ratio, manufacturers' unfilled orders to shipments, defense products, Census		693. Ratio, manufacturers' inventories to shipments, defense products, Census	
	Seasonally adjusted*	Moving average of seasonally adjusted data-5-month*		Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*
	(Mil. dol.)	(Mil. dol.)		(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)
1972							
January	1,475	1,496		12.3	11.8	3.1	3.0
February	1,519	1,488	3,298	11.9	12.0	3.0	3.1
March	1,497	1,501	...	12.0	12.1	3.1	3.1
April	1,509	1,492	...	12.1	12.3	3.1	3.2
May	1,503	1,486	3,225	12.1	12.4	3.1	3.2
June	1,431	1,480	...	13.5	12.6	3.4	3.2
July	1,489	1,477	...	12.7	12.7	3.2	3.3
August	1,466	1,478	3,767	13.0	12.8	3.3	3.3
September	1,497	1,495	...	12.8	12.8	3.3	3.3
October	1,509	1,499	...	12.6	12.7	3.3	3.3
November	1,512	1,531	3,275	12.4	12.5	3.3	3.3
December	1,509	1,546	...	12.6	12.4	3.4	3.3
1973							
January	1,628	1,561		11.7	12.3	3.2	3.3
February	1,570	1,575	r3,599	12.2	12.3	3.3	3.3
March	1,584	1,607	...	12.2	12.2	3.3	3.3
April	1,584	1,587	...	12.4	12.3	3.4	3.3
May	1,669	1,585	r3,607	11.9	12.4	3.2	3.4
June	1,527	1,571	...	13.2	12.6	3.6	3.4
July	1,562	1,561	...	12.7	12.8	3.5	3.5
August	1,511	1,552	r3,612	13.4	12.8	3.7	3.5
September	1,535	1,555	...	13.0	13.0	3.6	3.6
October	1,625	1,543	...	12.4	13.1	3.4	3.6
November	1,541	1,552	r3,611	13.5	13.3	3.6	3.6
December	1,505	1,567	...	13.8	13.4	3.7	3.6
1974							
January	1,552	1,564		13.8	13.4	3.7	3.6
February	1,610	1,573	p3,756	13.6	13.6	3.6	3.7
March	1,612	1,591	...	13.4	13.7	3.7	3.7
April	1,586	r1,600	...	13.6	r13.7	3.8	3.8
May	1,594	p1,572	(NA)	13.9	p13.9	3.8	(NA)
June	r1,596			r13.9		3.9	
July	p1,472			p15.0		(NA)	
August							
September							
October							
November							
December							

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 12.)

Defense-Related Balance of Payments Components

Year and month	546. Transfers under U.S. military agency sales contracts (exports), BEA		547. Direct defense expenditures (imports), BEA, not seasonally adjusted*	696. U.S. Government cash receipts associated with military sales contracts, BEA	
	Not seasonally adjusted	Seasonally adjusted*		Not seasonally adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1972					
January	311	326	1,222	237	273
February .....	...	...	...	...	...
March .....	...	...	...	...	...
April	321	281	1,242	373	365
May .....	...	...	...	...	...
June .....	...	...	...	...	...
July	224	252	1,109	325	381
August .....	...	...	...	...	...
September .....	...	...	...	...	...
October	299	295	1,185	452	368
November .....	...	...	...	...	...
December .....	...	...	...	...	...
1973					
January	326	342	1,175	520	554
February .....	...	...	...	...	...
March .....	...	...	...	...	...
April	509	446	1,209	544	535
May .....	...	...	...	...	...
June .....	...	...	...	...	...
July	466	520	1,067	610	665
August .....	...	...	...	...	...
September .....	...	...	...	...	...
October	1,054	1,046	1,104	616	536
November .....	...	...	...	...	...
December .....	...	...	...	...	...
1974					
January	p642	p672	p1,138	p487	p520
February .....	...	...	...	...	...
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May	(NA)	(NA)	(NA)	(NA)	(NA)
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August .....	...	...	...	...	...
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November .....	...	...	...	...	...
December .....	...	...	...	...	...

NA=not available; p=preliminary; r=revised. *Indicates series shown in charts. (See page 13.)

Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title	1974											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
MONTHLY SERIES												
Defense Department gross obligations incurred:												
617. Total ¹	104.7	92.6	88.7	94.7	87.8	122.7	112.8	100.7	101.0	105.7	94.8	91.6
619. Operations ¹	105.9	88.0	93.2	103.7	95.1	112.9	115.5	100.4	94.7	107.9	93.4	89.0
621. Procurement	112.5	98.2	84.1	75.8	67.2	174.6	69.4	83.7	104.2	118.2	97.1	115.0
623. Gross obligations incurred outside the Federal Government for national defense ¹	104.9	87.6	92.3	95.7	89.8	113.8	113.8	105.1	92.6	108.1	100.2	96.2
625. Defense Department military prime contract awards for work performed in the United States	91.3	83.2	97.2	72.0	78.1	176.9	112.3	98.5	102.4	100.1	84.9	103.3
Defense Department gross unpaid obligations outstanding: ²												
643. Total	102.6	102.6	99.5	97.7	93.5	96.4	98.0	101.1	101.4	103.7	102.2	101.1
644. Operations	106.7	101.3	94.3	93.3	88.7	87.6	97.1	105.2	104.0	113.1	107.8	101.0
645. Procurement	102.8	103.7	100.9	99.2	96.4	101.0	97.6	97.7	98.3	100.1	100.5	101.4
648. Manufacturers' new orders, defense products ³	94.9	98.1	98.4	87.5	71.2	93.1	178.1	85.4	116.2	104.9	91.8	106.5
653. Average weekly overtime hours, production workers, defense products industries ⁴	-.1	-.1	.0	-.3	-.3	.0	-.3	.0	.3	.2	.2	.4
654. Accession rate, defense products industries ⁴ .....	.0	-.2	-.1	-.2	-.0	.7	-.2	.4	-.2	.1	-.2	-.7
655. Layoff rate, defense products industries ⁴ .....	.3	.2	.2	.0	-.2	-.2	-.2	-.1	-.1	.1	.1	-.1
657. Output of defense and space equipment ³	100.0	99.9	100.4	99.4	99.9	100.7	98.6	98.9	100.1	100.1	100.9	101.8
659. Manufacturers' inventories, defense products ³	98.6	99.8	101.3	100.6	100.0	99.9	100.2	99.2	99.7	100.6	100.6	99.4
661. Manufacturers' unfilled orders, defense products ³	101.0	101.2	101.0	99.8	97.3	96.3	101.0	99.7	100.5	101.0	99.9	99.8
Employment in defense products industries:												
670. Total	100.3	100.1	99.8	99.5	99.3	99.7	99.7	99.6	100.3	100.2	100.6	100.6
671. Production workers	100.5	100.2	99.6	99.2	98.8	99.3	99.1	99.6	100.8	100.9	101.0	100.8
673. Index of aggregate weekly man-hours, defense products industries	100.3	99.8	100.0	99.3	99.3	99.8	98.9	99.2	100.4	100.3	101.2	101.7
675. Index of aggregate weekly payrolls, production workers, defense products industries	100.8	99.8	100.1	98.6	98.8	98.9	97.1	98.4	100.7	100.5	102.4	104.3
Defense Department net outlays:												
680. Total, military functions and military assistance ¹	102.9	95.0	102.5	103.5	106.8	114.2	86.4	95.1	93.1	102.0	97.7	98.7
681. Operations ¹	101.0	95.9	100.8	103.5	104.0	112.5	94.1	96.9	94.8	99.3	97.4	97.9
682. Procurement ¹	100.6	93.7	105.8	102.0	105.3	115.6	98.9	94.6	93.1	105.7	91.4	91.7
683. Budget outlays for the national defense function ¹	103.7	94.3	101.5	104.1	105.3	114.0	89.0	94.8	92.8	102.3	97.0	96.9
685. Defense Department personnel compensation ¹	103.4	98.5	101.2	100.2	103.2	98.8	101.4	99.0	97.6	99.1	97.6	98.0
688. Manufacturers' shipments, defense products ³	88.0	96.4	99.5	99.6	98.9	105.6	98.1	99.1	103.4	99.5	102.9	108.3
QUARTERLY SERIES												
	IQ		IIQ		IIIQ		IVQ					
	96.1		100.9		98.4		104.5					
200. Gross national product ³	99.2		104.9		95.0		100.9					
264. Fed. Govt. purchases of goods and services, national defense ³	-16		63		-54		8					
Defense Department military prime contract awards:												
626. Aircraft	91.1		114.9		104.1		90.3					
627. Missile and space systems	90.8		72.6		130.9		106.7					
629. Weapons and ammunition	96.3		124.5		48.6		129.9					
630. Electronic and communications equipment	92.0		126.6		81.7		100.1					
631. Combat vehicles	58.1		125.8		126.2		90.3					
632. Other hard goods	89.6		139.1		66.5		105.0					
633. Soft goods	67.6		75.3		154.6		102.9					
634. Construction	90.6		180.7		65.1		63.8					
635. Services	58.1		101.4		129.6		109.7					
636. Under \$10,000	99.3		125.3		83.0		92.5					
637. Educational and nonprofit institutions	84.2		93.1		104.7		118.6					
640. Outside U.S.	79.5		90.7		156.4		74.4					
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government	87.1		90.2		123.4		99.3					
664. Manufacturers' unfilled orders from the U.S. Government	99.7		96.3		102.5		101.5					
689. Manufacturers' shipments to the U.S. Government	93.8		102.5		98.9		105.0'					
G96. U.S. Govt. cash receipts associated with military sales contracts ⁵	-34		9		-55		80					

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures-imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department manpower (series 677 and 678) contain no measurable seasonal variation. The series on job vacancy rate, defense products industries (series 656) contains too few observations to be seasonally adjusted.

¹ Factors are products of seasonal and trading-day factors.

² Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

³ These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

⁴ These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

⁵ This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

Series title	Period covered	\bar{O}	\bar{C}_I	\bar{T}	\bar{C}	\bar{T}/\bar{C}	MCD	Average duration of run (ADR)	
								CI	MCD
Defense Department gross obligations incurred:									
617. Total	Jan. '57-Jan. '74	18.68	7.38	7.29	0.75	9.72	6	1.53	2.31
619. Operations	July '59-Jan. '74	8.33	2.61	2.50	.64	3.88	4	1.72	3.00
621. Procurement	Jan. '57-Jan. '74	45.13	22.23	22.10	1.68	13.19	6	1.49	2.12
623. Gross obligations incurred outside the Federal Government for national defense	July '63-Jan. '74	(NA)	6.94	6.82	.74	9.21	6	1.52	2.47
625. Defense Department military prime contract awards for work performed in the United States, total	Jan. '57-Jan. '74	33.17	15.07	14.94	1.32	11.33	6	1.39	2.03
Defense Department gross unpaid obligations outstanding:									
643. Total	Jan. '57-Jan. '74	2.08	1.36	.90	.91	.99	1	2.58	2.58
644. Operations	Jan. '57-Jan. '74	5.47	2.48	2.16	1.06	2.03	3	2.00	4.82
645. Procurement	Jan. '57-Jan. '74	2.49	1.51	.99	.99	1.00	2	2.15	4.88
Manufacturers' new orders:									
647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	.97	15.32	6	1.58	2.33
648. Defense products	Feb. '68-Jan. '74	25.69	19.12	19.01	1.59	11.94	6	1.45	2.00
*653. Average weekly overtime hours, production workers, defense products industry (hours)	Jan. '58-Jan. '74	.22	.13	.13	.05	2.84	3	2.13	4.22
*654. Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.39	.16	.15	.05	3.12	4	2.26	3.78
*655. Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.17	.13	.13	.04	3.07	4	2.02	4.02
*656. Job vacancy rate, defense products industries (percent) ^⑩	Apr. '69-Dec. '73	.08	(NA)	.07	.05	1.36	2	4.00	7.86
657. Output of defense and space equipment	Jan. '54-Jan. '74	(NA)	.98	.48	.79	.60	1	4.07	4.07
Manufacturers' inventories:									
658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2.80	2.80
659. Defense products	Jan. '68-Jan. '74	1.89	1.74	1.16	1.27	.92	1	3.00	3.00
Manufacturers' unfilled orders:									
660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	.83	1.09	2	2.76	3.42
661. Defense products	Jan. '68-Jan. '74	1.93	1.64	1.11	.99	1.11	2	2.77	3.94
Employment in defense products industries:									
670. Total	Jan. '58-Jan. '74	.74	.68	.25	.60	.42	1	4.68	4.68
671. Production workers	Jan. '58-Jan. '74	1.02	.86	.43	.69	.63	1	3.62	3.62
673. Index of aggregate weekly man-hours, defense products industries	Jan. '58-Jan. '74	.92	.75	.35	.62	.56	1	4.09	4.09
675. Index of aggregate weekly payrolls, production workers, defense products industries	Jan. '58-Jan. '74	1.61	1.07	.65	.81	.80	1	3.05	3.05
Defense Department manpower:									
677. Military ^⑪	Jan. '57-Jan. '74	.66	(NA)	.26	.59	.44	1	4.25	4.25
678. Civilian ^⑫	Jan. '57-Jan. '74	.55	(NA)	.33	.43	.79	1	4.25	4.25
Defense Department net outlays:									
680. Total, military functions and military assistance	Jan. '57-Jan. '74	9.06	3.97	3.87	.75	5.18	6	1.71	3.16
681. Operations	July '59-Jan. '74	7.57	3.52	3.31	.70	4.75	5	1.61	2.43
682. Procurement	Jan. '57-Jan. '74	15.02	11.57	11.44	1.55	7.38	6	1.59	2.88
683. Budget outlays for the national defense function	Jan. '57-Jan. '74	(NA)	4.09	4.02	.69	5.82	6	1.58	3.02
685. Defense Department personnel compensation	Jan. '67-Jan. '74	2.72	1.40	1.21	.53	2.29	4	2.55	4.26
Manufacturers' shipments:									
687. Defense products industries	Jan. '57-Mar. '72	(NA)	2.67	2.49	.87	2.85	3	1.64	3.40
688. Defense products	Jan. '68-Jan. '74	6.98	4.45	4.40	.95	4.62	5	1.41	2.83
Ratio, manufacturers' unfilled orders to shipments:									
690. Defense products industries	Jan. '57-Mar. '72	(NA)	2.95	2.71	.96	2.82	4	1.90	3.81
691. Defense products	Jan. '68-Jan. '74	8.23	5.09	5.05	.93	5.46	6	1.60	3.05
Ratio, manufacturers' inventories to shipments:									
692. Defense products industries	Jan. '57-Mar. '72	(NA)	2.84	2.90	.72	4.01	5	2.46	5.74
693. Defense products	Jan. '68-Jan. '74	8.05	5.37	5.44	.75	7.20	6	1.76	3.35

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). ^⑩ indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

" \bar{O} " is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

" \bar{C}_I " is the same for the seasonally adjusted series.

" \bar{T} " is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

" \bar{I} " is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

" \bar{T}/\bar{C} " measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

Part 2. Quarterly Series

Series title	Period covered	\bar{O}	\bar{C}_I	\bar{T}	\bar{C}	\bar{T}/\bar{C}	QCD	Average duration of run (ADR)	
								CI	QCD
200. Gross national product	IQ '57-IVQ '73 . . .	5.70	1.79	0.32	1.73	0.18	1	9.57	9.57
264. Federal Government purchases of goods and services, national defense	IQ '57-IVQ '73 . . .	6.18	2.00	.76	1.71	.45	1	3.05	3.05
*546. Transfers under U.S. military agency sales contracts—exports (mil. dol.) . . .	IQ '60-IVQ '73 . . .	76.33	54.22	39.30	29.71	1.32	2	1.67	2.35
*547. Direct defense expenditures—imports (mil. dol.) @	IQ '60-IVQ '73 . . .	34.27	(NA)	26.55	21.70	1.22	2	1.83	2.70
*613. National defense purchases as a percent of GNP (percent)	IQ '57-IVQ '73 . . .	.33	.18	.08	.16	.48	1	5.58	5.58
650. Manufacturers' new orders from the U.S. Government, aerospace industries	IQ '61-IVQ '73 . . .	(NA)	16.77	14.80	5.06	2.92	4	1.38	1.66
664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries	IQ '61-IVQ '73 . . .	(NA)	3.75	2.31	2.51	.92	1	2.32	2.32
666. Defense Department progress payments outstanding @	IQ '57-IVQ '73 . . .	4.73	(NA)	2.25	4.22	.53	1	2.48	2.48
689. Manufacturers' shipments to the U.S. Government, aerospace industries	IQ '61-IVQ '73 . . .	(NA)	4.16	3.27	1.99	1.64	2	1.70	2.27
*696. U.S. Government cash receipts associated with military sales contracts (million dollars)	IQ '60-IVQ '73 . . .	96.62	73.64	56.86	38.62	1.47	2	1.57	2.35

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). @ indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, \bar{C}_I is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.

Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected Defense Indicators series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index-Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
648. MANUFACTURERS' NEW ORDERS, DEFENSE PRODUCTS, SEASONALLY ADJUSTED ¹ (MILLIONS OF DOLLARS)																	
TOTAL FOR PERIOD																	
1968... 1969... 1970... 1971... 1972... 1973... 1974...	1,675 2,447 1,757 1,897 2,241 1,384 1,675	1,646 2,660 1,918 1,458 1,460 1,460	1,749 1,936 1,613 1,544 1,430 1,460	2,038 1,825 1,770 1,398 2,577	2,025 1,825 1,770 1,307 1,635	2,934 1,584 1,734 1,540 1,540	2,304 1,501 1,961 1,540 1,540	2,499 1,828 1,811 1,696 1,540	2,301 2,080 1,630 1,838 1,319	2,392 1,782 1,657 1,434 1,806	7,121 5,600 5,123 5,290 5,085	6,443 4,692 5,636 5,068 5,731	7,192 5,566 5,098 5,068 4,481	23,558 20,727 20,855 19,546			
648. MANUFACTURERS' NEW ORDERS, DEFENSE PRODUCTS, 6-MONTH MOVING AVERAGE OF SEASONALLY ADJUSTED DATA ¹ (MILLIONS OF DOLLARS)																	
1968... 1969... 1970... 1971... 1972... 1973... 1974...	2,427 2,333 1,724 1,667 1,680 1,680 1,680	2,256 2,086 1,665 1,790 1,583 1,608 1,612	1,941 1,942 1,793 1,826 1,589 1,602	2,151 1,730 1,786 1,789 1,705 1,726	2,261 1,770 1,793 1,808 1,705 1,757	2,386 1,763 1,789 1,782 1,757	2,346 1,661 1,782	2,272 1,763 1,789 1,782 1,754	2,449 2,080 1,630 1,838 1,546	2,368 1,690							
657. OUTPUT OF DEFENSE AND SPACE EQUIPMENT, SEASONALLY ADJUSTED ² (INDEX: 1967=100)																	
AVERAGE FOR PERIOD																	
1947... 1948... 1949... 1950... 1951... 1952... 1953... 1954... 1955... 1956... 1957... 1958... 1959... 1960... 1961... 1962... 1963... 1964... 1965... 1966... 1967... 1968... 1969... 1970... 1971... 1972... 1973... 1974...	9.9 10.1 12.1 11.1 21.7 43.8	9.8 10.5 12.1 11.1 25.0 44.2	9.6 10.7 12.1 11.2 28.4 44.3	9.6 11.0 11.8 11.9 31.2 46.3	9.6 10.7 12.0 12.3 32.2 47.7	9.3 11.6 11.6 12.9 33.9 47.9	9.3 11.8 11.6 14.2 35.9 48.8	9.3 12.1 11.2 15.6 38.2 49.5	9.3 12.3 11.2 18.0 42.1 51.2	10.0 12.3 12.1 19.5 43.0 52.2	9.8 10.9 11.2 11.1 25.0 44.1	9.5 11.6 11.8 14.2 32.4 46.3	9.3 12.2 11.2 18.1 41.7 52.4	9.6 11.3 11.8 13.8 34.0 47.9			
659. MANUFACTURERS' INVENTORIES, DEFENSE PRODUCTS, SEASONALLY ADJUSTED ³ (MILLIONS OF DOLLARS)																	
END OF PERIOD																	
1968... 1969... 1970... 1971... 1972... 1973... 1974...	7,009 7,551 7,226 5,185 4,594 1,675	6,953 7,597 6,936 5,017 4,627 7,591	6,863 7,421 6,836 4,942 4,706	7,066 7,340 6,557 5,016 4,720	7,114 7,421 6,415 4,907 4,711	7,380 7,476 6,415 4,942 4,802	7,140 7,566 6,412 4,907 4,802	7,326 7,524 5,984 4,387 4,937	7,483 7,314 5,587 4,418 4,937	7,430 7,129 5,587 4,988 5,087	7,421 7,129 5,434 4,988 5,087	7,556 7,524 5,434 5,434 5,087	7,556 7,129 5,434 5,434 5,087	7,556 7,129 5,434 5,434 5,087			
661. MANUFACTURERS' UNFILLED ORDERS, DEFENSE PRODUCTS, SEASONALLY ADJUSTED ¹ (MILLIONS OF DOLLARS)																	
END OF PERIOD																	
1968... 1969... 1970... 1971... 1972... 1973... 1974...	23,391 22,846 19,081 17,432 18,206 18,071	22,640 23,054 18,633 17,606 18,071	21,938 23,475 18,734 17,393 18,034	21,497 18,333 18,101 17,873 18,176	21,798 18,333 17,967 17,049 18,176	22,499 22,377 17,790 16,301 19,322	21,314 21,373 17,967 16,301 19,076	22,224 20,708 17,846 16,444 19,119	22,383 20,257 17,836 17,444 19,119	22,901 20,708 17,331 17,440 19,070	22,901 20,727 17,331 17,440 19,070	22,901 20,727 17,331 17,440 19,070	22,901 20,727 17,331 17,440 19,070				

¹This series contains revisions beginning with 1968.

²This series contains no revisions but is reprinted for the convenience of the user.

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Appendix C. HISTORICAL DATA—Continued

Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
677. DEFENSE DEPARTMENT MANPOWER, MILITARY, NOT SEASONALLY ADJUSTED (THOUSANDS)															END OF PERIOD		
1948...	1,400	1,404	1,399	1,403	1,421	1,446	1,496	1,531	1,568	1,592	1,610	1,626	1,399	1,446	1,568	1,626	1,626
1949...	1,668	1,662	1,647	1,630	1,619	1,615	1,617	1,608	1,593	1,584	1,579	1,551	1,647	1,615	1,593	1,551	1,551
1950...	1,511	1,488	1,474	1,466	1,459	1,460	1,498	1,628	1,889	2,117	2,261	2,357	1,474	1,460	1,889	2,357	2,357
1951...	2,620	2,794	2,962	3,075	3,170	3,249	3,313	3,346	3,376	3,418	3,462	3,465	2,962	3,249	3,376	3,465	3,465
1952...	3,562	3,643	3,675	3,685	3,660	3,636	3,637	3,619	3,583	3,559	3,534	3,507	3,675	3,636	3,583	3,507	3,507
1953...	3,513	3,510	3,518	3,524	3,543	3,555	3,558	3,548	3,509	3,482	3,458	3,403	3,518	3,555	3,509	3,403	3,403
1954...	3,381	3,359	3,342	3,326	3,312	3,302	3,302	3,289	3,280	3,257	3,233	3,181	3,382	3,302	3,280	3,181	3,181
1955...	3,203	3,180	3,105	3,036	2,969	2,935	2,940	2,945	2,931	2,923	2,916	2,887	3,105	2,935	2,931	2,887	2,887
1956...	2,879	2,664	2,850	2,836	2,813	2,806	2,810	2,798	2,795	2,801	2,798	2,781	2,800	2,806	2,795	2,781	2,781
1957...	2,767	2,788	2,792	2,792	2,790	2,796	2,608	2,789	2,758	2,699	2,659	2,617	2,792	2,758	2,617	2,617	2,617
1958...	2,613	2,618	2,623	2,608	2,600	2,601	2,604	2,605	2,598	2,597	2,590	2,566	2,623	2,601	2,598	2,566	2,566
1959...	2,561	2,550	2,538	2,518	2,506	2,504	2,506	2,492	2,501	2,495	2,538	2,492	2,492	2,492	2,487	2,487	2,487
1960...	2,491	2,487	2,478	2,472	2,465	2,476	2,480	2,485	2,492	2,501	2,500	2,494	2,478	2,476	2,492	2,494	2,494
1961...	2,503	2,498	2,490	2,483	2,473	2,484	2,497	2,514	2,553	2,725	2,811	2,490	2,484	2,553	2,811	2,811	2,811
1962...	2,849	2,849	2,840	2,829	2,808	2,808	2,807	2,684	2,688	2,702	2,687	2,668	2,840	2,808	2,688	2,668	2,668
1963...	2,677	2,684	2,691	2,693	2,692	2,700	2,703	2,702	2,695	2,693	2,694	2,676	2,691	2,700	2,695	2,676	2,676
1964...	2,687	2,696	2,693	2,694	2,690	2,687	2,696	2,693	2,690	2,680	2,678	2,663	2,687	2,690	2,663	2,663	2,663
1965...	2,663	2,652	2,647	2,645	2,641	2,655	2,669	2,686	2,724	2,761	2,803	2,857	2,647	2,655	2,724	2,857	2,857
1966...	2,902	2,937	2,969	3,004	3,056	3,094	3,136	3,184	3,229	3,280	3,326	3,334	2,969	3,094	3,229	3,334	3,334
1967...	3,357	3,368	3,371	3,368	3,377	3,382	3,393	3,412	3,416	3,412	3,398	3,371	3,412	3,398	3,398	3,398	3,398
1968...	3,427	3,440	3,467	3,494	3,518	3,547	3,545	3,526	3,490	3,454	3,443	3,408	3,467	3,547	3,490	3,408	3,408
1969...	3,418	3,432	3,452	3,465	3,459	3,460	3,458	3,459	3,449	3,387	3,351	3,298	3,452	3,460	3,449	3,298	3,298
1970...	3,255	3,220	3,173	3,116	3,084	3,066	3,045	3,020	2,984	2,946	2,917	2,874	3,173	3,066	2,984	2,874	2,874
1971...	2,861	2,840	2,802	2,770	2,737	2,715	2,685	2,657	2,627	2,608	2,579	2,802	2,715	2,627	2,519	2,519	2,519
1972...	2,462	2,426	2,385	2,341	2,319	2,323	2,332	2,344	2,356	2,371	2,370	2,348	2,385	2,323	2,356	2,348	2,348
1973...																	
1974...																	
678. DEFENSE DEPARTMENT MANPOWER, CIVILIAN, NOT SEASONALLY ADJUSTED (THOUSANDS)															END OF PERIOD		
1950...	750	744	743	745	754	753	779	859	904	941	967	988	743	753	904	988	988
1951...	1,047	1,100	1,150	1,182	1,208	1,235	1,249	1,258	1,261	1,270	1,274	1,278	1,150	1,235	1,261	1,278	1,278
1952...	1,290	1,296	1,300	1,307	1,315	1,337	1,339	1,334	1,328	1,329	1,330	1,330	1,337	1,328	1,330	1,330	1,330
1953...	1,426	1,410	1,390	1,365	1,342	1,332	1,320	1,308	1,288	1,278	1,253	1,248	1,390	1,332	1,288	1,248	1,248
1954...	1,241	1,232	1,224	1,219	1,212	1,209	1,202	1,193	1,180	1,177	1,181	1,180	1,224	1,209	1,180	1,180	1,180
1955...	1,183	1,182	1,181	1,182	1,185	1,187	1,186	1,187	1,181	1,179	1,179	1,167	1,181	1,187	1,167	1,167	1,167
1956...	1,165	1,165	1,165	1,168	1,171	1,179	1,184	1,187	1,180	1,183	1,179	1,176	1,165	1,179	1,180	1,176	1,176
1957...	1,174	1,172	1,168	1,165	1,160	1,161	1,160	1,154	1,130	1,105	1,093	1,085	1,168	1,161	1,130	1,085	1,085
1958...	1,083	1,084	1,084	1,088	1,089	1,097	1,098	1,097	1,093	1,094	1,092	1,088	1,097	1,093	1,088	1,088	1,088
1959...	1,084	1,078	1,076	1,075	1,074	1,078	1,078	1,076	1,071	1,064	1,060	1,056	1,076	1,078	1,064	1,052	1,052
1960...	1,047	1,046	1,046	1,043	1,044	1,047	1,043	1,045	1,037	1,035	1,033	1,032	1,046	1,047	1,037	1,032	1,032
1961...	1,033	1,034	1,035	1,036	1,041	1,056	1,041	1,052	1,052	1,058	1,059	1,035	1,042	1,059	1,059	1,059	1,059
1962...	1,060	1,061	1,061	1,063	1,066	1,070	1,072	1,076	1,067	1,069	1,070	1,066	1,061	1,070	1,067	1,066	1,066
1963...	1,054	1,061	1,056	1,056	1,054	1,050	1,052	1,053	1,046	1,045	1,044	1,043	1,056	1,046	1,043	1,043	1,043
1964...	1,042	1,040	1,039	1,039	1,036	1,030	1,031	1,034	1,026	1,024	1,026	1,019	1,039	1,030	1,026	1,019	1,019
1965...	1,017	1,018	1,018	1,022	1,027	1,034	1,046	1,055	1,045	1,052	1,060	1,057	1,018	1,034	1,045	1,057	1,057
1966...	1,066	1,061	1,061	1,063	1,066	1,070	1,072	1,076	1,067	1,069	1,070	1,066	1,061	1,070	1,067	1,066	1,066
1967...	1,267	1,265	1,266	1,267	1,271	1,317	1,334	1,316	1,276	1,275	1,273	1,273	1,266	1,317	1,276	1,273	1,273
1968...	1,315	1,316	1,317	1,316	1,312	1,342	1,348	1,327	1,296	1,285	1,272	1,317	1,342	1,296	1,262	1,262	1,262
1969...	1,252	1,240	1,224	1,218	1,213	1,194	1,184	1,177	1,169	1,162	1,158	1,152	1,224	1,194	1,169	1,152	1,152
1970...	1,146	1,143	1,142	1,141	1,136	1,127	1,129	1,132	1,130	1,128	1,125	1,122	1,142	1,127	1,130	1,122	1,122
1971...	1,119	1,117	1,112	1,107	1,090	1,083	1,068	1,073	1,071	1,081	1,083	1,082	1,112	1,083	1,071	1,082	1,082
1972...																	
1973...																	
1974...																	
685. DEFENSE DEPARTMENT PERSONNEL COMPENSATION, NOT SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)															TOTAL FOR PERIOD		
1966...	***	***	***	***	***	***	***	***	***	***	***	***	5,118	5,268	5,656	5,741	21,779
1967...	1,933	1,887	1,967	1,930	1,972	1,992	2,046	2,053	2,034	2,037	2,069	2,198	5,767	5,898	6,113	6,304	24,098
1968...	2,166	2,113	2,111	2,146	2,203	2,170	2,333	2,294	2,286	2,355	2,377	2,270	6,390	6,519	6,913	6,662	26,684
1969...	2,348	2,237	2,308	2,316	2,315	2,336	2,557	2,528	2,510	2,531	2,413	2,499	6,889	6,967	7,595	7,443	28,894
1970...	2,461	2,356	2,429	2,671	2,708	2,539	2,562	2,490	2,481	2,442	2,433	2,492	7,246	7,918	7,533	7,367	30,064
1971...	2,530	2,533	2,531	2,531	2,558	2,524	2,504	2,508	2,519	2,548	2,621	2,649	7,625	7,638	7,541	7,713	30,517
1972...	2,687	2,642	2,686	2,660	2,571	2,70											

Appendix C. HISTORICAL DATA—Continued

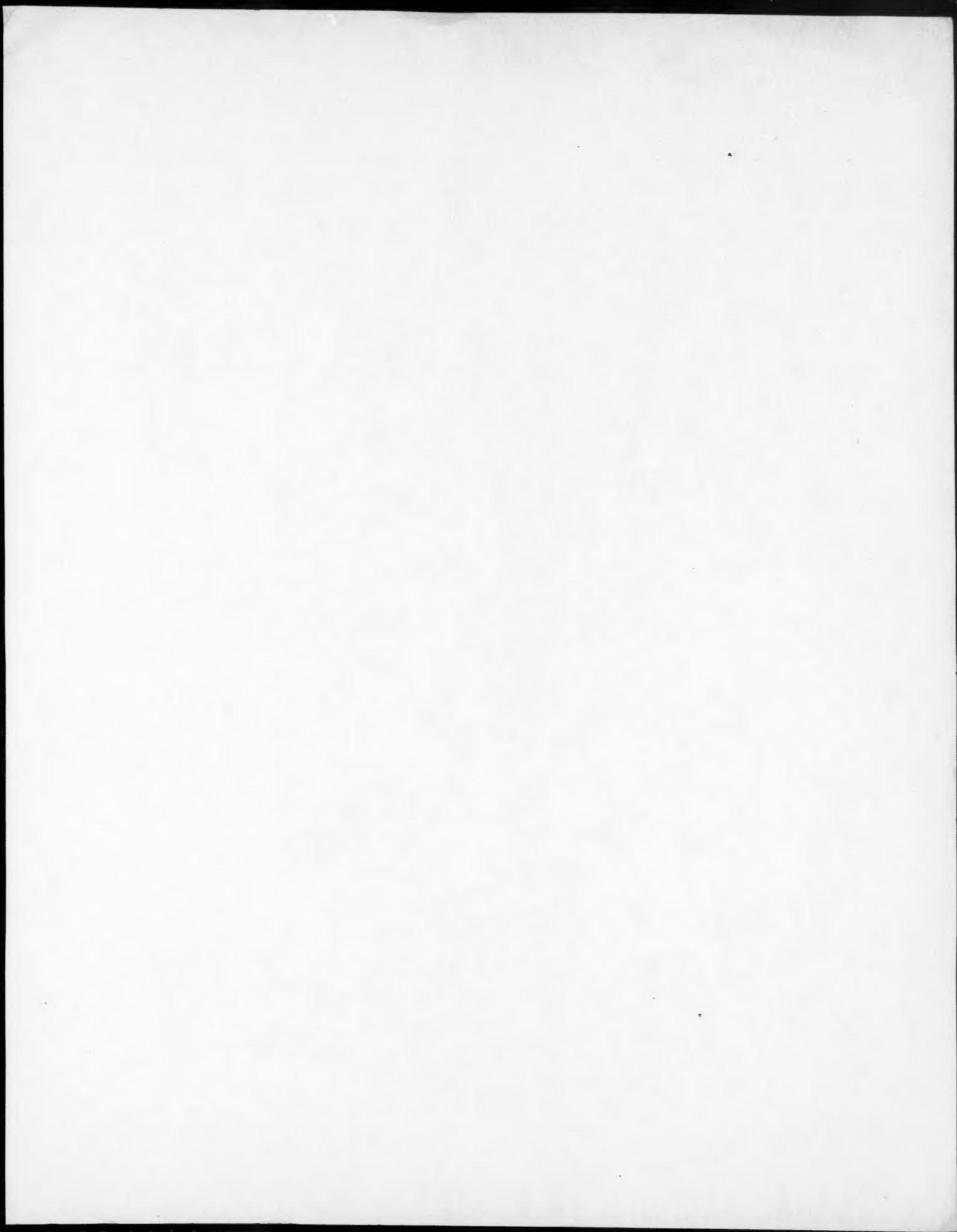
Year	Monthly												Quarterly				Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	I Q	II Q	III Q	IV Q	
688. MANUFACTURERS' SHIPMENTS, DEFENSE PRODUCTS, 5-MONTH MOVING AVERAGE OF SEASONALLY ADJUSTED DATA (MILLIONS OF DOLLARS)																	
1968...	...	...	2,299	2,267	2,260	2,195	2,186	2,183	2,195	2,169	2,227	2,246					
1969...	2,250	2,273	2,264	2,235	2,218	2,219	2,189	2,172	2,183	2,193	2,135	2,103					
1970...	2,081	2,038	1,992	2,001	1,970	1,948	1,927	1,925	1,893	1,886	1,863	1,826					
1971...	1,767	1,716	1,694	1,746	1,716	1,717	1,694	1,657	1,556	1,529	1,489	1,500					
1972...	1,496	1,488	1,501	1,492	1,486	1,480	1,477	1,478	1,495	1,499	1,531	1,546					
1973...																	
1974...																	
691. RATIO, MANUFACTURERS' UNFILLED ORDERS TO SHIPMENTS, DEFENSE PRODUCTS, SEASONALLY ADJUSTED (RATIO)																	
													AVERAGE FOR PERIOD				
1968...	10.2	9.3	9.3	9.8	9.7	10.5	8.9	11.0	10.4	10.2	10.4	10.1	9.6	10.0	10.1	10.2	10.0
1969...	9.9	10.3	10.5	10.0	10.3	10.3	10.2	9.5	9.6	9.6	9.1	9.0	10.2	10.2	9.8	9.2	9.9
1970...	9.8	9.4	9.3	9.1	9.2	8.9	9.7	9.3	9.4	9.0	9.5	9.6	9.5	9.1	9.5	9.4	9.4
1971...	9.7	10.2	10.4	11.0	10.0	7.9	10.7	9.9	11.5	11.3	11.2	12.1	10.1	9.6	10.7	11.5	10.5
1972...	12.3	11.9	12.0	12.1	12.1	13.5	12.7	13.0	12.8	12.6	12.4	12.6	12.1	12.6	12.8	12.5	12.5
1973...																	
1974...																	
691. RATIO, MANUFACTURERS' UNFILLED ORDERS TO SHIPMENTS, DEFENSE PRODUCTS, 6-MONTH MOVING AVERAGE OF SEASONALLY ADJUSTED DATA (RATIO)																	
													AVERAGE FOR PERIOD				
1968...	**	**	**	9.8	9.6	9.9	10.1	10.1	10.2	10.2	10.3	10.2	9.6	10.0	10.1	10.2	10.0
1969...	10.2	10.2	10.2	10.2	10.3	10.1	10.0	9.9	9.7	9.5	9.4	9.4	10.2	10.2	9.8	9.2	9.9
1970...	9.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.4	9.4	9.6	9.5	9.1	9.5	9.4	9.4
1971...	9.7	10.1	10.2	9.9	10.0	10.0	10.2	10.2	10.4	11.1	11.4	11.7	10.1	9.6	10.7	11.5	10.5
1972...	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.8	12.8	12.7	12.5	12.4	12.1	12.6	12.8	12.5	12.5
1973...																	
1974...																	
693. RATIO, MANUFACTURERS' INVENTORIES TO SHIPMENTS, DEFENSE PRODUCTS, SEASONALLY ADJUSTED (RATIO)																	
													AVERAGE FOR PERIOD				
1968...	3.1	2.9	2.9	3.2	3.2	3.5	3.0	3.6	3.5	3.3	3.4	3.3	3.0	3.3	3.4	3.3	3.2
1969...	3.3	3.4	3.4	3.2	3.3	3.4	3.6	3.4	3.5	3.5	3.3	3.2	3.4	3.3	3.5	3.3	3.4
1970...	3.7	3.5	3.4	3.3	3.3	3.2	3.5	3.2	3.1	2.9	3.0	3.0	3.5	3.3	3.3	3.0	3.3
1971...	2.9	2.9	3.0	3.2	2.9	2.2	2.8	2.5	3.0	2.9	2.9	3.2	2.9	2.6	2.6	3.0	2.9
1972...	3.1	3.0	3.1	3.1	3.1	3.4	3.2	3.3	3.3	3.3	3.3	3.4	3.1	3.2	3.3	3.3	3.2
1973...																	
1974...																	

Note: These series contain revisions beginning with 1968.

(August 1974)

1960-1961 - 1962-1963 - 1964-1965





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ALPHABETICAL INDEX—SERIES FINDING GUIDE

Series title	Series number	Current issue (page numbers)		Historical data (issue date)	Series descriptions (issue date)	Series title	Series number	Current issue (page numbers)		Historical data (issue date)	Series descriptions (issue date)
		Charts	Tables					Charts	Tables		
Accession rate, defense products industries	654	8	21	5/74	4/73	Inventories, manufacturers'	659	9	22	8/74	2/73
Aerospace industries						Defense products	658	9	...	1/72	2/73
Manufacturers' new orders from U.S. Government	650	See New orders.				Ratio to shipments, defense products	693	12	26	8/74	2/73
Manufacturers' shipments to U.S. Government	689	See Shipments.				Ratio to shipments, defense products industries	692	12	...	11/72	2/73
Manufacturers' unfilled orders from U.S. Government	664	See Unfilled orders.									
Balance of payments (defense-related)						Job vacancy rate, defense products industries	656	8	21	8/73	4/73
Cash receipts associated with military sales contracts	696	13	27	9/73	10/73	Layoff rate, defense products industries	655	8	21	5/74	4/73
Direct defense expenditures	547	13	27	9/73	10/73	Man-hours, defense products industries	673	10	23	5/74	4/73
Transfers under military agency sales contracts	546	13	27	9/73	10/73	Manpower—See Civilian manpower and Military manpower.					
Budget outlays for national defense function	683	See Outlays.				Military manpower, Defense Department	677	10	24	8/74	8/68
Cash receipts associated with military sales contracts	696	See Balance of payments.				Military prime contract awards—See Contract awards.					
Civilian manpower, Defense Department	678	10	24	8/74	8/68	Net outlays, Defense Department—See Outlays.					
Compensation						New orders, manufacturers'	648	7	20	8/74	2/73
Payrolls, aggregate weekly, defense products industries	675	10	23	5/74	4/73	Defense products	647	7	...	11/72	2/73
Personnel compensation, Defense Department	685	11	25	8/74	8/68	Defense products industries	650	8	20	4/74	2/73
Contract awards, military prime						From Government, aerospace industries					
Aircraft	626	...	16	5/74	8/68	Obligations incurred, gross	619	...	15	4/74	8/68
Civilian Health and Medical Program	638	...	19	...		Defense Department, operations	621	6	15	4/74	8/68
Combat vehicles	631	...	17	5/74	8/68	Defense Department, procurement	617	6	15	4/74	8/68
Construction	634	...	18	5/74	8/68	Outside Government for national defense	623	6	16	4/74	10/73
Contracts under \$10,000	636	...	19	5/74	8/68	Obligations outstanding, gross unpaid					
Educational and nonprofit institutions	637	...	19	5/74	8/68	Defense Department, operations	644	...	20	4/74	8/68
Electronic and communications equipment	630	...	17	5/74	8/68	Defense Department, procurement	645	...	20	4/74	8/68
Missile and space systems	627	...	16	5/74	8/68	Defense Department, total	643	7	20	4/74	8/68
Other hard goods	632	...	18	5/74	8/68	Operations, Defense Department					
Services	635	...	18	5/74	8/68	Net outlays	681	See Outlays.			
Ships	628	...	17	5/74	8/68	Obligations incurred	619	See Obligations incurred.			
Soft goods	633	...	18	5/74	8/68	Unpaid obligations outstanding	644	See Obligations outstanding.			
Total	625	7	16	5/74	8/68	Orders—See New orders and Unfilled orders.					
Weapons and ammunition	629	...	17	5/74	8/68	Outlays					
Work outside the U.S.	640	...	19	5/74	8/68	Budget outlays for national defense function	683	11	25	4/74	10/73
Defense and space equipment, output						Defense Department, operations	681	...	24	4/74	8/68
Defense Department						Defense Department, procurement	682	11	25	4/74	8/68
Gross obligations incurred—See Obligations incurred.						Defense Department, total	680	11	24	4/74	8/68
Gross unpaid obligations outstanding—See Obligations outstanding.						Output of defense and space equipment	657	9	22	8/74	10/73
Manpower—See Civilian manpower and Military manpower.						Overtime hours, defense products industries	653	8	21	5/74	4/73
Military prime contract awards—See Contract awards.											
Net outlays—See Outlays.											
Personnel compensation											
Progress payments outstanding											
Direct defense expenditures											
Employment											
Accession rate, defense products industries	654	See Accession rate.									
Employment, production workers, defense products industries											
Employment, total, defense products industries	671	10	23	5/74	4/73						
Job vacancy rate, defense products industries	670	10	22	5/74	4/73						
Layoff rate, defense products industries	656	See Job vacancy rate.									
Man-hours, defense products industries	655	See Layoff rate.									
Manpower—See Civilian manpower and Military manpower.											
Overtime hours, defense products industries	653	See Overtime hours.									
Expenditures—See Outlays.											
Federal purchases of goods and services for national defense											
Gross national product											
Federal purchases of goods and services for national defense	264	5	14	9/73	10/73						
Gross national product	200	5	14	9/73	10/73						
National defense purchases in percent of GNP	613	5	14	9/73	10/73						
Gross obligations incurred—See Obligations incurred.											
Gross unpaid obligations outstanding—See Obligations outstanding.											
Gross national product											
Federal purchases of goods and services for national defense											
Gross national product											
National defense purchases in percent of GNP											



